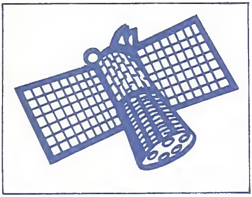
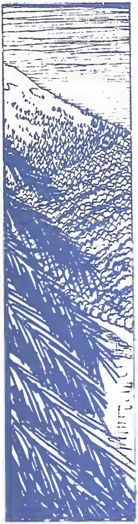
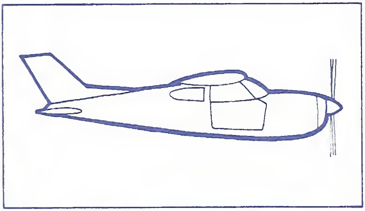
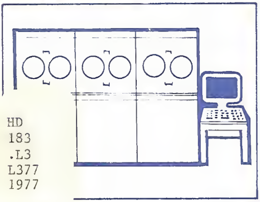




PHASE I DRD Unit Resource Analysis





HD
183
.L3
L377
1977

BUREAU OF LAND MANAGEMENT

User Requirement Specifications

Watershed

IN ORDER TO VISUALIZE THE GENERAL CONCEPT OF INTERFACING WITH A LARGE SCALE AUTOMATED SYSTEM, THE REVIEWER(S) OF THIS DOCUMENT SHOULD BE FAMILIAR WITH THE "USER INTERFACE INTRODUCTION" UNDER SEPARATE COVER.

#8086564
ID 88001629

HD
183
.L3
L377
1977

A
User Requirements Document
for a
Watershed Resource Inventory - URA
Information System

BUREAU OF LAND MANAGEMENT LIBRARY
Denver, Colorado
88001629

PHASE I
DETAILED REQUIREMENTS DEFINITION

OCTOBER, 1977

Bureau of Land Management
Library
Bldg. 50, Denver Federal Center
Denver, CO 80225

PREFACE

The User Requirement Specifications contain the general requirements of the Watershed Management Information System defined during the Detailed Requirements Definitions (DRD) Study, Phase 1, of the BLM Strategic Plan. They represent the very first step in the design phase of the Watershed Management Information System - an initial summary of the users' requirements within the Resource Inventory - URA framework. This document is not a design document of the automated system itself.

A few comments on the organization of this document may facilitate your understanding of this package. The introduction (A) and the Probable Impacts (B) are the primary narrative portion of the entire document. The remainder is devoted to an information flow chart of the system (C) and a detailed description of the outputs (D) and inputs (E).

The information flow (C) is the one part of the document listing all inputs and outputs. Ad hoc outputs, of course, are not included since these cannot be predefined. They are free-form outputs requested whenever the need arises and will be provided by the general retrieval capability included in the automated system. The information flow also shows generally which inputs produce which outputs.

Part D is a detailed description of the outputs which are grouped by susbystem, i.e., soils, vegetation/cover, air, geology, and water. Each output is usually described by three pages. The first two consist of a completed output description form. This contains the output title, a brief description, proposed usage, frequency of production, etc. The third page is a sample of the described output, although in some cases the sample consists of several pages. The order in which the outputs are presented has no significance. However, the first position of the output identification code shows which subsystem the output is a part of, and the second position is always an "O", e.g., AO-1 is the first Air output.

Section E is a detailed description of the inputs which are also grouped by subsystem. Each input is usually described by two pages. The first is a completed input description form, which is similar to the output description form. It will be either an Initial Data Base Generation form or a Data Base Maintenance form. The former is used only for one-time inputs, i.e., those which will establish or help to establish the data base but will not be used again to update it. All other inputs, those which will maintain the data base and, perhaps, also help establish it, are described by a Data Base Maintenance form. The second page is a sample of the described input. In rare instances the sample consists of several pages. As with the outputs, their order has no significance, but the first position of the input identification code shows which subsystem the input is a part of and the second position is always an "I", e.g., GI-1 is the first Geology input.

ACKNOWLEDGMENTS

The following individuals actively participated in the Watershed DRD, Phase I:

Alaska	Ken Brakken	Anchorage DO
Arizona	Cloyd Swapp	AZ Strip DO
California	Al Endo	Desert Planning Staff
	Roger Zortman	Susanville DO
Colorado	Eric Janes	SO
	Paul Summers	SO
Idaho	Tom Woodward	SO
Montana	Dex Hight	Miles City DO
Nevada	Ronnie Clark	SO
New Mexico	Howard Gebel	Roswell DO
Oregon	Rick Banta	SO
	Bill Power	Salem DO
	Byron Thomas	SO
Utah	Jim Littlejohn	Richfield DO
	Dick Page	SO
	Bill Wagner	SO
Wyoming	Julian Anderson	Rock Springs DO
	Larry Cary	Casper DO
	Dick Larsen	Rawlins DO
WO	Stu Hughes	350
	Don Willen	350
DSC	Bob Delk	307
	Keith Eggleston	350
	Frank Giessner	350
	Jim Hagihara	350
	Sharon Heywood	200
	Dale Hoffman	300

Their contributions to this document are very much appreciated.

Glenn Lipscomb
Watershed Core Team Member

CONTENTS

A. Introduction WS-1

B. Probable Impacts WS-2

C. Information Flow Chart WS-5

D. Outputs

Soils WS-10

Vegetation/Cover WS-67

Air WS-145

Geology WS-217

Water WS-264.1

E. Inputs

Soils WS-398

Vegetation/Cover WS-446

Air WS-478

Geology WS-501

Water WS-527

A. Introduction

The Watershed Program as currently structured includes both technical services in support of other Bureau programs and operational program responsibilities (activity plan for Watershed). Resource inventory data associated with these responsibilities include soils, vegetation/cover, climate, air quality, non-mineral geology, and water resources (surface and ground, water quantity and quality). While all of these types of data have been considered in the resource inventory DRD, lack of BLM Manual guidelines and expertise created considerable difficulty in adequately addressing the areas of climate, air quality, non-mineral geology, and water resources.

Through the DRD field team effort during 1976, outputs were identified for each resource data area (Watershed subsystems) including resource inventory and Steps 2, 3, and 4 of Unit Resource Analysis (URA). Outputs consist of maps, overlays, tables, plots and graphs. These are proposed for either hard copy or CRT display. Input sources consist of BLM field maps and data forms for resource inventory. This data is proposed to be supplemented with data transferred from external sources (e.g., climate data from National Climatic Center (NCC) of NOAA; air quality data from EPA's SAROAD data base; water quality data from EPA's STORET data base; etc. --- for geographic areas of interest to BLM). However, cooperative efforts with other agencies will be necessary before such external data can be acquired by BLM.

Watershed was stratified into five subsystems representing the basic types of data involved in the Watershed Program. A general description of each subsystem follows (the numbers enclosed in parenthesis are the subsystem numbers):

1. Soils (0141) - Standard inventory outputs consist of soil maps (mapping units/associations); tables for physical, chemical and engineering characteristics; and tables for various types of soil use/limitation interpretations. In addition, URA outputs for erosion susceptibility and fragile areas are provided for in the soils subsystem. Input sources consist of BLM field maps and data forms together with data from SCS automated data base and soil inventory reports.

2. Vegetation/cover (0142) - Outputs include those currently generated by the Watershed Conservation and Development System (WC&D-0008). These outputs are in the form of tables from the WC&D data base and include inventory data types other than vegetation/cover. In addition, URA outputs such as watershed area map, vegetation type table, land treatments and management facilities tabulation/overlay, erosion condition and trend overlay, vegetal-soil factor overlay, and watershed opportunities overlay/tabulation are provided for in this subsystem. Input sources include WC&D field data form (7330-12), SIM Transect Data Form (V-1), and field maps.

3. Air (0143) - Inventory outputs include standard climatological tables for weather stations; tables displaying air quality monitoring station data; maps displaying areal climatic and air quality data; and tables of existing air quality standards. In addition, URA outputs such as climate/air quality overlays and tables are provided for in the subsystem. Input sources include field maps and data forms for climate and air quality monitoring stations; and air quality standard forms together with data from EPA automated data bases (SAROAD, NEDS, etc.).

4. Geology (0144) - Inventory outputs for non-mineral geology include groundwater site inventory tables, water-level contour maps, and well hydrographs.(Ground-water sites were covered in Geology rather than Water because of the expertise on the Geology team.) In addition, URA outputs such as geologic maps, landform maps, and topographic overlay/tables are provided for in this subsystem. Input sources include field maps, spring inventory form, and ground-water site inventory form.

5. Water (0145) - Inventory outputs for water resources include standard water monitoring station quality and quantity tables, watershed and channel characteristic tables , tables of existing water quality standards, and tables of hydromet station data. In addition, URA outputs such as water use tables; overlays for water resources, water quality and yield, flood and sediment damage, and water use; and water supply tables are provided for in this subsystem. Input sources include water monitoring station data forms, basin record forms, water quality standard forms, water supply and use forms, and field maps together with data from other agency automated data bases (USGS, WATSTORE; EPA STORET, etc.).

B. Probable Impacts of Data Base

The establishment of a data base for the Watershed program involves inventory data for soils, vegetation/cover, climate, air quality, geology(non-mineral), and water resources. Of these types of resource data only soils and vegetative cover are currently included in BLM manual procedures (soils - 7312 and WC&D - 7322.11). Initiation of the data base system will require modification of soil and WC&D inventory forms now contained in manual guidelines. In addition, procedures will have to be developed for collection and recordation of climate, air quality, non-mineral geology, and water resource data since none presently exist. Specific comments by type of data follow:

a. Soils (Subsystem 0141) - Present manual sections(7312.1,.2) cover soil inventory and interpretation procedures. Procedures, forms and reports must have major changes for adaptation to an automated data base. These changes must be made with close coordination of the Soil Conservation Service. Such coordination is required so that BLM data is compatable with that of SCS, and transfer of data between the two agencies can be automatically accomplished. To insure such compatability, both SCS and BLM soils forms were included in the DRD effort.

b. Vegetation/Cover (Subsystem 0142) - The present Manual 7322.11, Watershed Conservation and Development Inventory , contains procedures for collection of watershed cover transect data. This data is currently stored and retrieved through the WC&D, System 0008. Major changes will be required for both procedures and forms for vegetative cover data. Future data source is proposed to come from the SIM (Site Inventory Method) transect data with such data updating existing WC&D data currently in System 0008. Bridging this gap will require a major change in the existing system.

c. Air (Subsystem 0143) - Currently there are no manual procedures or developed forms for collecting and recording climate and air quality inventory data. Developing necessary guidelines, forms, etc., for climate and air quality will require a major change in current operations.

d. Geology (Subsystem 0144) - Implementation of non-mineral geology inventory data requirements will require a major effort. New procedures, forms and reports will require development since manual guidelines are nonexistent.

e. Water (Subsystem 0145) - There are no manual guidelines (7000) for water resource inventory in existence at the present time. Therefore, a major effort will be required for development of new procedures, forms, and reports. A WAR (work assignment record) has been approved for development of a coordinated water resource inventory by D-300 during FY-78. This WAR will be a joint effort of several S&T staffs (wildlife, watershed, recreation, range, forestry, etc.). Procedures developed through this WAR may require changes in the user specification package.

f. URA - Requirements of Steps 2 (Physical profile), 3 and 4 (Watershed) are included under the above subsystems so far as inputs and outputs are concerned. Generating automated outputs required in the present Manual 1605 will require substantial change in forms and reports. Future changes in output requirements for URA (Manual revision) would result in a need for changes in the user specification package.

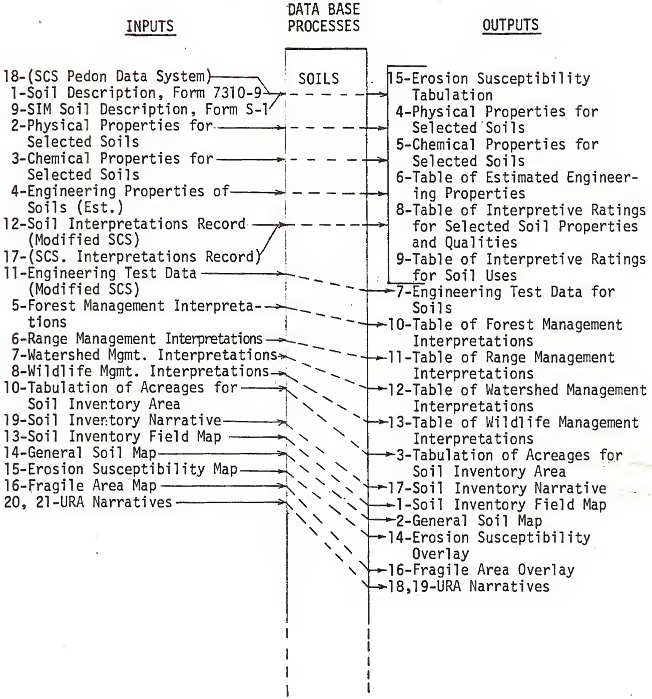
While most of the current 1605 requirements have been included as input/output products, with implementation of an automated data base for resource inventory, the need for many of these input/output products as independent documents will probably not be required. Rather, graphic and tabular outputs from resource inventory will be used for planning areas to support URA.

During individual DRD Team assignments to DSC, considerable discussion evolved concerning existing external data systems for the storage and retrieval of watershed information (e.g., soils, climate, air quality, water quantity, water quality, etc.). Most of the concern of team members centered around possible duplication of data storage systems which other agencies currently operate. Systems such as SAROAD and STORET operated by EPA for storage of air and water quality data are national in scope and may be used by other agencies such as BLM.

Prior to design of the data base system for resource inventory, a decision must be made between two alternatives: (1) establish a BLM data base for soil, climate, air quality and water, and acquire appropriate existing and updated data from other data bases, or (2) arrange with other agencies for storage of BLM data in their systems and for analysis and retrieval of data from these systems. An evaluation of each existing system should be made in order to reach a decision between alternatives 1 and 2. Such evaluations, were impossible during the limited participation of DRD Teams at DSC during 1976. Future evaluations, if undertaken, should involve the Washington Office, Division of Watershed (as lead office), for determining whether existing systems should be used in lieu of BLM's data base.

It should be noted that this document assumes a BLM data base for all types of Watershed Inventory Data (alternative 1). If alternative 2 were selected a significant change would be required for the watershed package.

C. Information Flow for Watershed

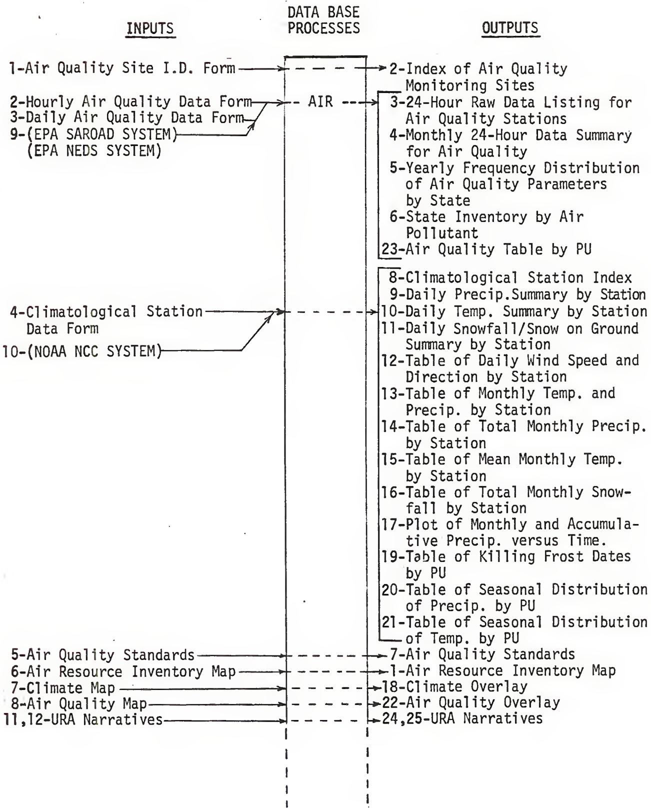


INPUTS
DATA BASE PROCESSES
OUTPUTS
SOILS
18-(SCS Pedon Data System)
1-Soil Description, Form 7310-9
9-SIM Soil Description, Form S-1
2-Physical Properties for Selected Soils
3-Chemical Properties for Selected Soils
4-Engineering Properties of Soils (Est.)
12-Soil Interpretations Record (Modified SCS)
17-(SCS. Interpretations Record)
11-Engineering Test Data (Modified SCS)
5-Forest Management Interpretations
6-Range Management Interpretations
7-Watershed Mgmt. Interpretations
8-Wildlife Mgmt. Interpretations
10-Tabulation of Acreages for Soil Inventory Area
19-Soil Inventory Narrative
13-Soil Inventory Field Map
14-General Soil Map
15-Erosion Susceptibility Map
16-Fragile Area Map
20, 21-URA Narratives
15-Erosion Susceptibility Tabulation
4-Physical Properties for Selected Soils
5-Chemical Properties for Selected Soils
6-Table of Estimated Engineering Properties
8-Table of Interpretive Ratings for Selected Soil Properties and Qualities
9-Table of Interpretive Ratings for Soil Uses
7-Engineering Test Data for Soils
10-Table of Forest Management Interpretations
11-Table of Range Management Interpretations
12-Table of Watershed Management Interpretations
13-Table of Wildlife Management Interpretations
3-Tabulation of Acreages for Soil Inventory Area
17-Soil Inventory Narrative
1-Soil Inventory Field Map
2-General Soil Map
14-Erosion Susceptibility Overlay
16-Fragile Area Overlay
18,19-URA Narratives

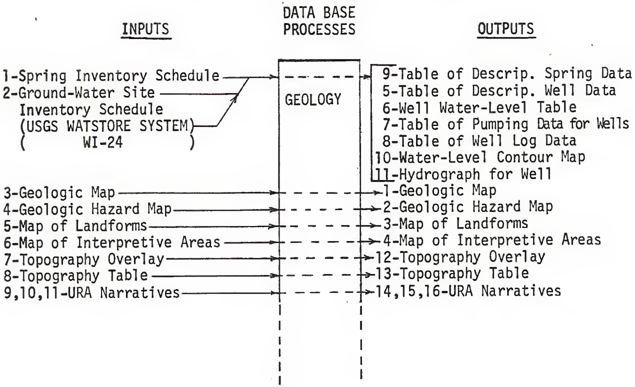
C. Information Flow for Watershed (Cont.)

INPUTS	DATA BASE PROCESSES	OUTPUTS
1-WC&D Field Data, Form 7330-12 2-SIM Transect Data, Form V-1	VEGETATIVE-COVER	2-Determination of Rating Points by Individual Watershed Area 3-Ranking of Individual Watershed Areas Within Districts 4-Erosion Classification Report 5-Acres by ECC by PU 6-Stable Acres by PU 7-Tabulated Acreages by Limiting Vegetal-Soil Factor Ratings 8-Water Potential by PU 9-Water Quality Summary by Watershed Area 10-Flood and Sediment Damage Summary by Watershed Area 11-Water Quality Summary by PU 12-Flood and Sediment Damage Summary by PU 13-Summary of Land Jurisdiction and Opportunities by PU 19-Erosion Condition and Trend Table
3-Vegetation Types by PU		14-Vegetation Types by PU
4-Land Treatments and Management Facilities by PU		17-Land Treatments and Mgmt. Facilities Tabulation
6-Watershed Area Field Map		1-Watershed Area Map
7-Vegetal-Soil Factor Overlay		15-Vegetal-Soil Factor Overlay by PU
8-Erosion Conditon and Trend Overlay		18-Erosion Condition and Trend Overlay
5-Land Treatments and Management Facilities Overlay		16-Land Treatments and Management Facilities Overlay
10-Management and Treatment Opportunity Areas by PU		21-Table of Management and Treatment Opportunity Areas
9-Watershed Opportunities Overlay		20-Watershed Opportunities Overlay
11 thru 15-URA Narratives		22 thru 26-URA Narratives

C. Information Flow for Watershed (Cont.)


INPUTS
DATA BASE PROCESSES
OUTPUTS
1-Air Quality Site I.D. Form
2-Index of Air Quality Monitoring Sites
2-Hourly Air Quality Data Form
3-Daily Air Quality Data Form
9-(EPA SAROAD SYSTEM) (EPA NEDS SYSTEM)
AIR
3-24-Hour Raw Data Listing for Air Quality Stations
4-Monthly 24-Hour Data Summary for Air Quality
5-Yearly Frequency Distribution of Air Quality Parameters by State
6-State Inventory by Air Pollutant
23-Air Quality Table by PU
8-Climatological Station Index
9-Daily Precip.Summary by Station
4-Climatological Station Data Form
10-(NOAA NCC SYSTEM)
10-Daily Temp. Summary by Station
11-Daily Snowfall/Snow on Ground Summary by Station
12-Table of Daily Wind Speed and Direction by Station
13-Table of Monthly Temp. and Precip. by Station
14-Table of Total Monthly Precip. by Station
15-Table of Mean Monthly Temp. by Station
16-Table of Total Monthly Snowfall by Station
17-Plot of Monthly and Accumulative Precip. versus Time.
19-Table of Killing Frost Dates by PU
20-Table of Seasonal Distribution of Precip. by PU
21-Table of Seasonal Distribution of Temp. by PU
5-Air Quality Standards
7-Air Quality Standards
6-Air Resource Inventory Map
1-Air Resource Inventory Map
7-Climate Map
18-Climate Overlay
8-Air Quality Map
22-Air Quality Overlay
11,12-URA Narratives
24,25-URA Narratives

C. Information Flow for Watershed (Cont.)



C. Information Flow for Watershed (Cont.)

INPUTS	DATA BASE PROCESSES	OUTPUTS
1-Surface-Water Station Record for Streams 3-Surface-Water Station Record for Lakes/Reservoirs 24-(USGS WATSTORE) 25-(EPA STORET)	WATER	9-Table of Daily Stream Discharge Data 10-Stage-Discharge Table 20-Table of Monthly Streamflow by Sta. 21-Flood Freq. Plot for Log Pearson Type III Method 22-Flood Flow Frequency Analysis - Log Pearson Type III 23-Graph of Water Quality Parameter Values versus Time 11-Table of Water Body Data 12-Table of Sediment Deposition 13-Table of Surface-Water Qual. Anal.
4-Basin Record		2-Table of Watershed Characteristics 3-Table of Hydrologic Char. of Soils 4-Table of Hydrologic Char. for Vegetation Sub-Types 7-Table of Watershed Relationships 8-Table of Channel Characteristics
2-Water Quality Standards by State		14-Table of Established Water Quality Standards
5-Annual Nonconsumptive Water Requirements-Rivers/Streams		30-Annual Nonconsumptive Water Requirements-Rivers/Streams
6-Annual Nonconsumptive Water Requirements-Lakes/Reservoirs		31-Annual Nonconsumptive Water Requirements-Lakes/Reservoirs
7-Annual Consumptive Water Req. (BLM)		33-Annual Consumptive Water Req. by Type of Use
23-Annual Consum. Water Req.(All Uses)		32-Ann. Consum. Water Req. by Basin
8-Channel and Stream Information Map		5-Channel and Stream Information Map
9-Cultural Dev. and Treatment Map		6-Cultural Dev. and Treatment Map
10-Map of Water Resources		1-Water Res. Inventory Map by Basin 24-Water Res. Overlay by PU
11-Map of Water Qual. & Water Yield		36-Water Qual. & Yield Overlay by PU
12-Map of Flood and Sediment Damage		38-Flood and Sediment Damage Overlay
13-Map of Water Use Areas for Watershed		40-Water Use Overlay
14-Stream Diversion Record		34-Stream Diversions Table
(Spring Inventory Schedule (Ground-Water Site Inv. Schedule) ([GI-1 and GI-2 from Geology])		15-Table of Water Quality Analysis for Ground Water
(Climatological Sta. Data form) ([AI-4 from Air])		16-Table of Daily Soil Temperature and Soil Moisture 17-Table of Daily Solar Rad. by Sta. 18-Table of Monthly Snow Depth and Snow Water Equivalent 19-Table of Monthly Soil Temperature and Soil Moisture
15-Surface-Water Supply Table		25-Surface-Water Supply Table
16-Lake and Res. Water Supply Table		26-Lake and Res. Water Supply Table
17-Ground-Water Supply Table		27-Ground-Water Supply Table
18-Table of Unused Water Supply		28-Table of Unused Water Supply
19-Total Storage Capacity Table		29-Total Storage Capacity Table
20-Table of Water Developments by Resource Activity		35-Table of Water Developments by Resource Activity
21-Table of Significant Water Yield Areas		37-Table of Significant Water Yield Areas
22-Flood and Sediment Damage Table		39-Flood and Sediment Damage Table
26,27,28,29-URA Narratives		41,42,43,44-URA Narratives

D. Outputs

This section contains a description and a sample for each output required for this program area.

SO-1

Prog. Area: Watershed-Soils
Prep. By: G. Lipscomb
Date: 19 July 77

OUTPUT DESCRIPTION
Page 1 of 2

OUTPUT TITLE: Soil Inventory Field Map

OUTPUT FORM: Map (on base 7-1/2 or 15 minute quad.)/graphic display

OUTPUT DESCRIPTION: A graphic display/hard copy of soil mapping unit boundaries for an inventory area (see attached)

USER(s): Soil Scientists; Natural Resource Specialists; Planners; etc.

LOCATION(s): SC; SOs; DOs; RAHs; etc.

USAGE: As input for URA, EAR's, ES's, activity plans, development project design, land classification, etc.

ACCESS LIMITATIONS: None

RESPONSE TIMES: DESIRED: 2 to 3 days REQUIRED: 1 week

FREQUENCY OF PRODUCTION: Weekly for Soil Scientist at DO to annually for SS at SC

DEPENDENCIES: None

REQUEST PARAMETERS: State, Geographic (100-0690);
District, Administrative (100-0543);
Name, Soil Inventory Areas (141-4600);
Planning Unit (100-1075) or
a set of coordinates (e.g., Latitude (100-1236)
and Longitude (100-1237))

WS - 10

OUTPUT DESCRIPTION
Page 2 of 2

OUTPUT TITLE: Soil Inventory Field Map

SORT ORDER: NA

ESTIMATED VOLUME: 3 to 5 copies per request

COMPUTATIONS/PROCESSES: NA

ACCURACY: Within 5%

SCALE: Variable (usually filed at 1:24,000 or 1:62,500)

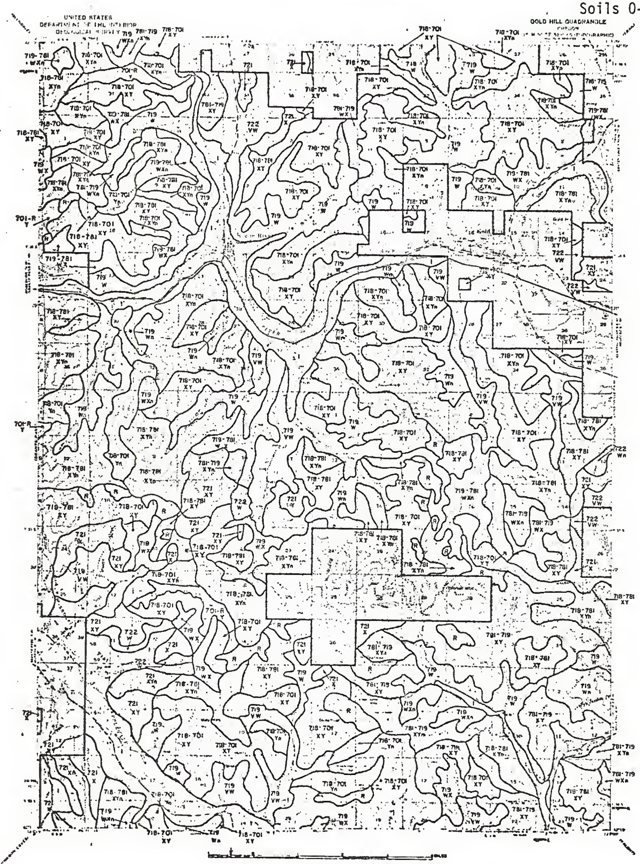
ANNOTATIONS: See attached

LEGEND: Standard soil map symbols keying mapping unit symbols to names of soil mapping units

REMARKS: None

WS-11

Soils 0-1



U.S. DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
OREGON (0690)
MEDFORD DISTRICT (0543)

(4600)
Name, Soil Inventory Area

SOIL INVENTORY MAP 1973 (6630)

WS-12

SO-2

Prog. Area: Watershed-Soils
Prep. By: G. Lipscomb
Date: 20 July 1977

OUTPUT DESCRIPTION
Page 1 of 2

OUTPUT TITLE: General Soil Map

OUTPUT FORM: Map/graphic display

OUTPUT DESCRIPTION: A graphic display/hard copy of soil association boundaries for an inventory area (see attached)

USER(s): Natural Resource Specialists; Soil Scientists; Planners; etc.

LOCATION(s): SC; SOs; DOs; RAHs; etc.

USAGE: As general or extensive information for input to general planning (URA/MFP/Regional Planning/etc.)

ACCESS LIMITATIONS: None

RESPONSE TIMES: DESIRED: 2-3 days REQUIRED: 1 week

FREQUENCY OF PRODUCTION: Monthly for planners/soil scientists at DO to annually for SS at SC

DEPENDENCIES: None

REQUEST PARAMETERS: State, Geographic (100-0690);
District, Administrative (100-0543);
Name, Soil Inventory Areas (141-4600);
Planning Unit (100-1075) or
  a set of coordinates (e.g., Latitude (100-1236) and Longitude (100-1237))

WS-13

OUTPUT DESCRIPTION
Page 2 of 2

OUTPUT TITLE: General Soil Map

SORT ORDER: NA

ESTIMATED VOLUME: 1 to 3 copies per request

COMPUTATIONS/PROCESSES:

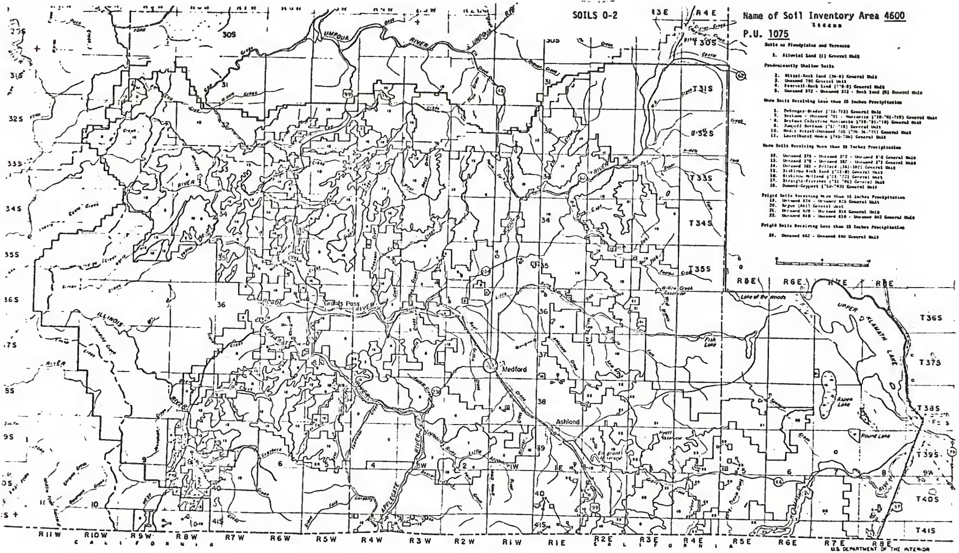
ACCURACY: Within 5%

SCALE: Variable (usually filed at 1:250,000)

ANNOTATIONS: See attached

LEGEND: Standard soil association symbols to key soil association name to mapping unit (see legend on sample general soil map--attached)

REMARKS: None


SOILS 0-2
Name of Soil Inventory Area 4600
Legend
P.U. 1075
Soils on Floodplains and Terraces
1. Alluvial Land (1) General Unit
Predominantly Shallow Soils
2. [illegible]-Rock Land (36-0) General Unit
3. Unnamed 790 General Unit
4. Pearsoll-Rock Land ([illegible]0-0) General Unit
5. Unnamed 872 - Unnamed 372 - Rock Land (0) General Unit
Warm Soils Receiving Less than 35 Inches Precipitation
6. Debenger-Brader (716-713) General Unit
7. Beekman - Unnamed 701 - Manzanita (710-701-719) General Unit
8. Beekman-Colestine-Manzanita (710-701-710) General Unit
9. Jumpoff-Beekman (71[illegible]-710) General Unit
10. Medco-[illegible]-Unnamed 705 (706-36-725) General Unit
11. Laurelhurst-Medco (765-7[illegible]) General Unit
Warm Soils Receiving More than 35 Inches Precipitation
12. Unnamed 378 - Unnamed 372 - Unnamed 870 General Unit
13. Unnamed 370 - Unnamed 102 - Unnamed 371 General Unit
14. Unnamed 381 - Pollard (381-380) General Unit
15. Siskiyou-Rock Land (721-0) General Unit
16. Siskiyou-Holland (721-722) General Unit
17. Straight-Freezener (711-701) General Unit
18. Dumont-Coppert (750-703) General Unit
Frigid Soils Receiving More than 35 Inches Precipitation
19. Unnamed 824 - Unnamed 825 General Unit
20. Bogue (841) General Unit
21. Unnamed 829 - Unnamed 810 General Unit
22. Unnamed 840 - Unnamed 850 - Unnamed 842 General Unit
Frigid Soils Receiving Less than 35 Inches Precipitation
23. Unnamed 842 - Unnamed 880 General Unit
UMPQUA RIVER
ROGUE RIVER
Grants Pass
ILLINOIS RIVER
APPLEGATE RIVER
Medford
Ashland
Lake of the Woods
UPPER KLAMATH LAKE
Fish Lake
Aspen Lake
Pound Lake
Hyatt Reservoir
Emigrant Reservoir
Willow Creek Reservoir
KLAMATH RIVER
T30S
T31S
T32S
T33S
T34S
T35S
T36S
T37S
T38S
T39S
T40S
T41S
R11W
R10W
R9W
R8W
R7W
R6W
R5W
R4W
R3W
R2W
R1W
R1E
R2E
R3E
R4E
R5E
R6E
R7E
R8E
CALIFORNIA
U.S. DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

GENERAL SOIL MAP

1978 (6630)

MEDFORD DISTRICT (0543)

OREGON (0690)

Prog. Area: Watershed-Soils
Prep. By: G. Lipscomb
Date: 20 July 77

SO-3

OUTPUT DESCRIPTION
Page 1 of 2

OUTPUT TITLE: Tabulation of Acreages for Soil Inventory Area

OUTPUT FORM: Printout/Data Display

OUTPUT DESCRIPTION: A tabulation of BLM and other acres for soil mapping units within a soil inventory area (see attached)

USER(s): Planners; Soil Scientists; Watershed Specialists; Managers; etc.

LOCATION(s): SOs; DOs' RAHs' etc.

USAGE: For statistical reporting purposes (ad hoc and annually)

ACCESS LIMITATIONS: None

RESPONSE TIMES: DESIRED: 2-3 days REQUIRED: 1 week

FREQUENCY OF PRODUCTION: Quarterly for soil scientists at DOs to annually for watershed specialists at SO

DEPENDENCIES: None

REQUEST PARAMETERS: State, Administrative (100-0004) or
State, Geographic (100-0690);
District, Administrative (100-0543);
Name, Soil Inventory Area (141-4600);
Planning Unit (100-1075);
Area, Resource (100-0418);
Name, Soil Mapping Unit (141-4601);
Acres, National Resource Lands (100-6594)

WS-16

OUTPUT DESCRIPTION
Page 2 of 2

SO-3

OUTPUT TITLE: Tabulation of Acreages for Soil Inventory Area

SORT ORDER: Identical to sequence of request parameters

ESTIMATED VOLUME: Variable number of pages for each response

COMPUTATIONS/PROCESSES: NA

ACCURACY: NA

SCALE: NA

ANNOTATIONS: NA

LEGEND: NA

REMARKS: None

WS-17

TABULATION OF ACREAGES FOR SOIL INVENTORY AREA

State (0690) (0004); District (0543); P.U. (1075); Soil Inventory Area (4600).

Map Symbol (4601)	Total (6520)	AREAS (0418) Glendale BLM (6594)	Glendale Other (6597)	Galice BLM	Galice Other	Grants Pass BLM	Grants Pass Other	Rogue BLM	Rogue Other	Butte Falls BLM	Butte Falls Other	Klamath BLM	Klamath Other
36-R/XY	12,730							130		4,260	2,110	5,950	280
36-R/XYn	1,770									120		1,560	90
36-R/Y	3,770							40		1,250	870	1,240	370
36-705/XY	8,140									1,510	600	2,810	3,220
36-705/XYn	550									430	120		
370-382-371/XW	11,850	4,210	780	880		840	940	1,610	1,570	470	550		
370-382-371/XWn	8,740	5,960	930	490		400	150	480	330				
370-382-371/XY	28,990	3,030	340	2,080	860	10,160	7,320	2,310	2,210	680			
370-382-371/XYn	47,950	9,770	3,820	9,290	1,430	9,970	6,530	3,000	1,580	1,000	1,560		
371-372-370/XY	101,410	28,080	14,990	12,230	2,520	15,240	12,030	5,770	5,070	2,190	3,290		
371-372-370/XYn	86,940	20,750	11,250	18,590	7,440	10,180	7,120	6,610	5,000				
372-371/Y	23,150	9,160	2,890	8,380	1,490	320	250		70	350	240		
372-371/Yn	43,570	13,600	4,170	16,080	2,600	2,190	1,480	2,700	520	80	150		
372-R/Y	23,690	12,230	1,690	5,100	1,530	2,080	680	360	20				
372-R/Yn	2,650			290	250	1,170	940						
380/W	10,870	2,210	800	220	180	2,720	4,300	120	320				
380/Wn	3,710	560	130	1,010	1,750	190	70						
380-382/WX	22,610	6,310	7,350	3,050	960	810	1,950	1,060	1,120				
380-382/WXn	18,670	3,060	2,920	5,960	2,740	1,700	2,100	90	100				
381-380/X	21,680	7,760	5,870	3,830	1,480	750	840	660	380	40	70		
381-380/Xn	7,040	2,860	2,420	1,380	380								
381-380/XY	16,470	6,380	3,710	3,010	1,800	440	1,130						
381-380/XYn	9,360	2,670	2,150	2,100	2,440								
701-R/Y	8,650			1,330	230	1,240	910	4,660	280				
704/W	1,490									80		390	1,020
704-36/XY	5,750									850		1,930	2,970
705-36/X	2,140							40		1,290	680	100	30
705-36/Xn	4,440									280	370	2,450	1,340
705-36/XY	21,380							40		5,290	4,390	7,540	4,120
705-36/XYn	12,760									1,250	1,840	6,280	3,390
705-36/Y	1,840									220		1,110	510

WS-18

SO-3
I-10C

Prog. Area: Watershed-Soils
Prep. By: G. Lipscomb
Date: 19 July 77

SO-4

OUTPUT DESCRIPTION
Page 1 of 2

OUTPUT TITLE: Physical Properties for Selected Soils

OUTPUT FORM: Printout/Data Display

OUTPUT DESCRIPTION: A table listing physical characteristics for soil taxonomic units (see attached)

USER(s): Soil Scientists; Natural Resource Specialists; Planners; etc.

LOCATION(s): SC; SOs' DOs; RAHs; etc.

USAGE: As input for URA, EARs, ESs, activity plans, development project design, land classification, etc.

ACCESS LIMITATIONS: None

RESPONSE TIMES: DESIRED: 2-3 days REQUIRED: 1 week

FREQUENCY OF PRODUCTION: Weekly for Soil Scientist at DO to annually for SS at SC

DEPENDENCIES: None

REQUEST PARAMETERS: State, Administrative (100-0004) or
State, Geographic (100-0690);
District, Administrative (100-0543);
County, etc. (100-0546);
Planning Unit (100-1075);
Name, Soil Inventory Area (141-4600);
Unit, Soil Taxonomic (141-4683)

WS-19

OUTPUT DESCRIPTION
Page 2 of 2

OUTPUT TITLE: Physical Properties for Selected Soils

SORT ORDER: Identical to sequence of request parameters

ESTIMATED VOLUME: 3-5 copies per request with 1 page/copy

COMPUTATIONS/PROCESSES: NA

ACCURACY: NA

SCALE: NA

ANNOTATIONS: NA

LEGEND: NA

REMARKS: None

State (0690) (0004); PU (1075);
District (0543); County (0546);
Name of Soil Inv. Area (4600).

PHYSICAL PROPERTIES FOR SELECTED SOILS

(4683) Soil Series Symbol	(4648) Soil Name	(4645) Sample Number and Location	(4547) Depth From Surface	(4561) Horizon	PARTICLE SIZE DISTRIBUTION (percentage)								(5311) (4626) Textural Class	(5311) (4629) MOISTURE	(4628) (5311) (4630) (5311) HELD AT:
					← Sand →										
					← (4605) →										
					very coarse	coarse	medium	fine	very fine	total	Silt	Clay		1/3 Bar	15 Bars
														1/10	
371	Unnamed	S71-ORE-10-3 (1-4)	0- 3	A1	5.20	5.8	5.4	12.4	12.6	41.3	43.4	15.3	Loam	--	8.2
(4683)		NW¼SE¼ Sec. 29,	3- 9	B1	4.80	5.8	5.1	13.0	13.1	41.7	40.3	18.0	Loam	--	9.2
		T. 31 S., R. 7 W.	9-24	B2	3.30	5.7	5.2	0.8	24.6	39.7	38.8	21.5	Loam	--	8.4
			24-34	B3	3.70	5.5	5.1	6.8	18.2	39.5	39.8	20.7	Loam	--	9.2
					←		(4606)	(5311) →							
380	Pollard	S71-ORE-10-4 (1-5)	0- 6	A1	4.50	3.9	3.6	8.6	8.5	29.1	43.8	27.7	Clay loam	--	12.7
		SW¼SW¼ Sec. 29,	6-15	B1	2.50	4.1	3.7	8.2	8.4	27.0	42.7	30.4	Clay loam	--	12.7
		T. 31 S., R. 7 W.	15-28	B21t	2.80	3.1	3.2	0.7	3.9	23.5	37.2	39.3	Clay loam	--	18.8
			28-48	B22t	2.10	3.2	3.7	5.4	7.7	22.1	28.7	49.2	Clay	--	22.5
			48-70	B3	1.10	1.7	2.0	0.8	3.4	19.1	32.6	48.4	Clay	--	22.7
380	Pollard	S71-ORE-10-2 (1-5)	0- 6	A1	4.80	5.4	3.4	1.0	11.2	25.8	34.9	39.3	Clay loam	--	18.9
		NW¼SW¼ Sec. 11,	6-12	B1	4.40	4.3	2.9	5.0	6.0	22.5	35.5	42.0	Clay	--	23.4
		T. 31 S., R. 8 W.	12-28	B21t	2.90	3.7	2.4	4.6	5.5	18.9	23.5	57.6	Clay	--	30.2
			28-40	B22t	2.90	3.4	2.3	1.0	7.9	17.5	26.4	56.2	Clay	--	29.6
			40-70	B3	4.20	5.0	3.5	3.5	9.2	25.3	20.1	54.6	Clay	--	28.7
721	Siskiyou	S71-ORE-17-1 (1-5)	0- 4	A1	1.06	16.1	11.3	17.6	13.8	59.8	29.3	10.9	Sandy loam	29.5	9.9
		NW¼SE¼SE¼ Sec. 36,	4-11	A3	1.47	17.9	11.8	8.6	22.0	61.8	29.1	9.2	Sandy loam	21.1	6.3
		T. 35 S., R. 6 W.	11-19	B2	1.41	17.6	12.0	17.4	12.3	60.7	30.7	8.6	Sandy loam	18.7	5.6
			19-31	C1	0.89	16.7	11.5	17.6	13.2	59.9	31.9	8.2	Sandy loam	19.1	5.5
			31-40	C2	1.24	20.9	12.8	21.5	14.2	70.7	20.5	8.8	Sandy loam	--	6.4
722	Holland	S71-ORE-17-2 (1-7)	0- 4	A1	1.60	16.2	10.8	16.1	11.6	56.3	30.0	13.7	Sandy loam	23.7	6.8
		NW¼SW¼SE¼ Sec. 4,	4- 8	A3	1.40	14.5	11.0	0.9	26.6	54.5	32.9	12.5	Sandy loam	--	6.0
		T. 36 S., R. 6 W.	8-14	B1	0.60	13.2	10.5	11.2	15.9	52.4	29.9	17.7	Sandy loam	20.0	6.9
			14-28	B21t	0.80	11.5	9.5	10.8	15.1	47.7	28.2	24.1	Sandy clay loam	21.8	10.8
			28-34	B22t	1.10	13.5	10.5	15.2	12.7	53.0	28.2	18.9	Sandy loam	--	10.1
			34-49	B3	2.40	18.9	11.5	16.2	12.4	61.4	27.0	11.6	Sandy loam	--	--
			49-60	C1	1.30	15.3	11.4	18.0	14.1	60.1	28.6	11.3	Sandy loam	--	--
*741	Freezner	SE¼SE¼ Sec. 21,	0- 9	A1	4.90	8.9	3.2	6.2	5.5	28.7	47.1	24.2	Loam	--	14.9
		T. 28 S., R. 2 E.	9-16	B1	1.00	4.2	2.6	6.0	5.6	19.4	46.7	33.9	Clay loam	--	22.5
			16-24	B21t	0.70	2.4	1.9	5.0	5.3	15.3	41.2	43.5	Silty clay	--	24.9
			24-32	B22t	0.40	2.7	2.1	5.2	5.0	15.4	33.3	46.3	Clay	--	26.5
			32-45	B23t	0.50	2.6	2.5	5.6	5.1	16.3	39.5	44.2	Clay	--	26.8
			45-56	B3t	0.80	3.3	3.0	6.6	6.3	20.0	41.5	38.5	Clay loam	--	25.0
			56-72	C1	1.10	4.1	3.7	7.5	7.2	23.6	39.2	37.2	Clay loam	--	21.2
*750	Dumont	NE¼NE¼ Sec. 10,	0- 4	A11	5.50	8.7	4.7	9.0	6.3	34.2	47.7	18.1	Loam	--	15.3
		T. 29 S., R. 1 E.	4- 9	A12	3.60	8.1	4.7	8.6	6.8	31.8	45.8	22.6	Loam	--	11.9
			9-14	B1	3.60	7.3	4.3	8.0	5.8	29.0	43.0	28.0	Clay loam	--	11.8
			14-22	B21t	4.50	6.8	4.1	7.0	5.4	27.8	42.1	20.1	Clay loam	--	12.9
			22-35	B22t	3.80	4.2	3.1	5.9	4.6	21.6	35.3	43.1	Clay	--	17.0
			35-45	B23t	2.60	3.6	2.9	6.1	5.0	20.2	34.3	45.5	Clay	--	18.0
			45-52	B24t	1.80	2.7	2.2	4.8	4.2	15.7	32.4	51.9	Clay	--	21.8
			52-62	B25t	0.70	1.4	2.4	4.5	1.4	10.4	33.5	56.1	Clay	--	30.1
			62-72	C	0.50	1.7	2.7	10.6	8.7	24.2	37.9	37.9	Clay loam	--	25.9

12-5-71

SO-4

n from South Umpqu

Prog. Area: Watershed-Soils
Prep. By: G. Lipscomb
Date: 20 July 77

SO-5

OUTPUT DESCRIPTION
Page 1 of 2

OUTPUT TITLE: Chemical Properties for Selected Soils

OUTPUT FORM: Printout/Data Display

OUTPUT DESCRIPTION: A table listing the chemical characteristics for soil taxonomic units (see attached)

USER(s): Soil Scientists; Natural Resource Specialists; Planners; etc.

LOCATION(s): SC; SO's; DOs' RAHs; etc.

USAGE: As input for URA, EARs, ESs, activity plans, development project design, land classification, etc.

ACCESS LIMITATIONS: None

RESPONSE TIMES: DESIRED: 2-3 days REQUIRED: 1 week

FREQUENCY OF PRODUCTION: Weekly for soil scientist at DO to annually for SS at SC

DEPENDENCIES: None

REQUEST PARAMETERS: State, Administrative (100-0004) or
State, Geographic (100-0690);
District, Administrative (100-0543);
County, etc. (100-0546);
Planning Unit (100-1075);
Name, Soil Inventory Area (141-4600);
Unit, Soil Taxonomic (141-4683)

WS-22

SO-5

OUTPUT DESCRIPTION
Page 2 of 2

OUTPUT TITLE: Chemical Properties for Selected Soils

SORT ORDER: Identical to sequence of request parameters.

ESTIMATED VOLUME: 3-5 copies per request with 1 page/copy

COMPUTATIONS/PROCESSES: NA

ACCURACY: NA

SCALE: NA

ANNOTATIONS: NA

LEGEND: NA

REMARKS: None

CHEMICAL PROPERTIES FOR SELECTED SOILS

State (0690) (0004);
District (0543); Soil Inv. Area (4600).

(4683)	(4648)	(4645)	(4547)	(4561)	(4642)	(4612 + 5311)	(4528)	(4531)	(4530)	(4529)	(4527)	(4604)
Soil Series Symbol	Soil Name	Sample Number and Location	Depth From Surface	Horizon	Soil Reaction (Water 1:1) (pH)	Organic Matter (percent)	EXTRACTABLE CATIONS meq/100g OF SOIL				Cation Exchange Capacity meq/100g	Percent Base Saturation1/
							Ca	Mg	Na	K		
371	Unnamed	S71-ORE-10-3 (1-4) NW¼SE¼ Sec. 29, T. 31 S., R. 7 W.	0- 3	A1	5.6	2.20	5.10	1.40	0.05	0.55	15.41	46.1
			3- 9	B1	5.6	4.30	7.10	1.70	0.07	0.56	20.93	45.1
			9-24	B2	5.7	1.20	4.40	1.30	0.10	0.63	19.53	32.9
			24-34	B3	5.7	1.40	5.10	1.50	0.10	0.58	23.58	44.7
380	Pollard	S71-ORE-10-4 (1-5) SW¼SW¼ Sec. 29, T. 31 S., R. 7 W.	0- 6	A1	5.4	4.50	5.10	1.70	0.07	1.00	21.77	36.2
			6-15	B1	5.5	1.40	2.40	1.50	0.05	0.92	14.87	32.8
			15-28	B21t	5.5	0.90	2.00	2.40	0.10	0.90	16.40	32.7
			28-48	B22t	5.4	0.40	0.68	2.10	0.10	0.69	16.77	21.3
			48-70	B3	5.4	0.30	0.17	1.90	0.10	0.46	17.63	14.9
380	Pollard	S71-ORE-10-2 (1-5) NW¼SW¼ Sec. 11, T. 31 S., R. 8 W.	0- 6	A1	4.7	6.30	8.50	0.35	0.07	0.34	28.16	30.4
			6-12	B1	4.9	4.30	0.34	0.42	0.05	0.36	20.57	4.9
			12-28	B21t	5.2	1.80	0.68	0.56	0.05	0.51	19.90	9.0
			28-40	B22t	5.4	0.80	0.17	0.21	0.05	0.28	17.70	4.0
			40-70	B3	5.3	1.00	0.17	0.28	0.02	0.31	18.08	4.3
721	Siskiyou	S71-ORE-17-1 (1-5) NW¼SE¼SE¼ Sec. 3, T. 35 S., R. 6 W.	0- 4	A1	6.5	6.73	12.20	1.30	0.10	0.58	25.18	56.3
			4-11	A3	6.3	2.68	5.10	0.56	0.07	0.46	12.89	48.0
			11-19	B2	6.0	0.81	3.40	0.56	0.07	0.36	9.29	47.3
			19-31	C1	6.0	--	4.10	0.90	0.10	0.31	9.41	57.5
			31-40	C2	5.8	--	7.80	2.20	0.14	0.31	14.45	72.3
722	Holland	S71-ORE-17-2 (1-7) NW¼SE¼NE¼ Sec. 4, T. 36 S., R. 6 W.	0- 4	A1	6.3	3.64	6.40	1.40	0.10	0.42	14.62	56.9
			4- 8	A3	6.0	0.96	3.70	1.10	0.10	0.22	9.22	55.5
			8-14	B1	5.9	0.71	3.40	1.50	0.10	0.11	9.21	55.5
			14-28	B21t	5.6	--	4.70	3.60	0.14	0.07	12.81	66.4
			28-34	B22t	5.7	--	5.70	4.30	0.24	0.07	14.51	71.1
			34-49	B3	5.5	--	7.40	5.10	0.19	0.03	15.82	80.4
			49-60	C1	5.8	--	8.10	4.90	0.24	0.03	16.27	81.6
2/741	Freezner	SE¼SE¼ Sec. 21, T. 28 S., R. 2 E.	0- 9	A1	5.4	2.30	9.80	3.10	0.10	0.90	39.80	40.0
			9-16	B1	5.2	0.77	10.20	4.20	0.20	0.80	37.40	45.0
			16-24	B21t	5.2	0.49	11.30	4.80	0.20	0.90	38.10	49.0
			24-32	B225	5.1	0.23	11.60	5.20	0.10	1.10	37.80	52.0
			32-45	B23t	5.0	0.20	11.40	5.30	0.10	1.20	39.50	52.0
			45-56	B3t	5.1	0.14	10.80	5.40	0.20	1.20	38.50	52.0
			56-72	C1	5.2	0.20	8.60	4.70	0.20	1.20	36.50	47.0
2/750	Dumont	NE¼NE¼ Sec. 10, T. 29S., R. 1 E.	0- 4	A11	6.4	4.47	14.50	1.90	0.10	1.00	33.40	49.0
			4- 9	A12	5.8	1.50	4.60	1.60	0.10	0.70	21.20	34.0
			9-14	B1	5.6	0.69	4.40	1.20	0.10	0.70	18.00	37.0
			14-22	B21t	5.4	0.41	5.00	2.10	0.40	0.40	18.80	46.0
			22-35	B22t	5.4	0.20	3.80	2.20	0.10	0.30	20.70	32.0
			35-45	B23t	5.3	0.11	3.90	2.40	0.10	0.30	22.90	33.0
			45-52	B24t	5.3	0.08	3.90	2.80	0.10	0.30	34.10	27.0
			52-62	B25t	5.0	0.12	4.80	5.00	0.10	0.40	51.20	22.0
			62-72	C	4.8	0.18	2.80	5.70	0.10	0.30	45.00	19.0

(5311)

1/ By the sum of the cations.

2/ Data taken from South Umpqua Area Soils Survey Report (Ref. 15).

Prog. Area: Watershed-Soils
Prep. By: G. Lipscomb
Date: 20 July 77

SO-6

OUTPUT DESCRIPTION
Page 1 of 2

OUTPUT TITLE: Table of Estimated Engineering Properties of Soils

OUTPUT FORM: Printout/Data Display

OUTPUT DESCRIPTION: A table of estimated engineering characteristics for soil taxonomic units (see attached)

USER(s): Soil Scientists; Natural Resource Specialists; Hydrologists; Engineers; etc.

LOCATION(s): SC; SOs; DOs; RAHs; etc.

USAGE: As input for development/construction project design, activity plans, EAR's, ES's, URA, etc.

ACCESS LIMITATIONS: None

RESPONSE TIMES: DESIRED: 2-3 days REQUIRED: 1 week

FREQUENCY OF PRODUCTION: Weekly for engineers/hydrologists/soil scientists at DO to annually for soil scientist at SC

DEPENDENCIES: None

REQUEST PARAMETERS: State, Administrative (100-0004) or
State, Geographic (100-0690);
District, Administrative (100-0543);
County, etc. (100-0546);
Planning Unit (100-1075);
Name, Soil Inventory Area (141-4600);
Unit, Soil Taxonomic (141-4683);
Hydrologic Soil Group (141-4562)

WS-35

OUTPUT DESCRIPTION
Page 2 of 2

OUTPUT TITLE: Table of Estimated Engineering Properties of Soils

SORT ORDER: Identical to sequence of request parameters

ESTIMATED VOLUME: 1 to 3 copies per request with 1 page/copy

COMPUTATIONS/PROCESSES: NA

ACCURACY: NA

SCALE: NA

ANNOTATIONS: NA

LEGEND: NA

REMARKS: None

WS-26

TABLE OF ESTIMATED ENGINEERING PROPERTIES OF SOILS

State (0690)(0004); District (0543);
Soil Inv. Area (4600); County (0546).

Soil Series Symbol (4683)	Soil Name (4648)	Depth From Surface (inches) (4547)	(4569) Depth to Bedrock (inches) (4546)	Hydrologic Group (4562)	Shrink/Swell Potential (4635)	---CORROSIVITY----		----------------CLASSIFICATION----------------			(4605) Coarse Fragments >3" (percent) (4606)	Liquid Limit (percent) (4571)	Plasticity Index (4564)
						Uncoated Steel (4540)	Concrete (4539)	USDA Texture (4526)	Unified (4523)	AASHO (4522)			
36	Witzel	0-19	12-20	D	Low	Moderate	Moderate	Very cobbly silty clay loam (5311)	GC or CL	A-6	30-60	35-40	15-20
370	Unnamed	0-60	40+	B	Moderate	Moderate	Moderate	Gravelly clay loam	CL	A-6	0-40	25-35	15-20
371	Unnamed	0- 9	20-40	B	Low	Moderate	Moderate	Loam	ML or CL-ML	A-4 or A-6	0	25-35	5-10
		9-34			Low	High	Moderate	Very gravelly loam	GM	A-2	0-20	25-35	5-10
372	Unnamed	0-18	12-20	D	Low	Moderate	Moderate	Very gravelly loam	GM	A-4 or A-2	0-20	20-30	5-10
380	Pollard	0- 9	40+	C	Low	Moderate	Low	Loam or clay loam	ML or CL	A-6	0-15	35-40	10-15
		9-50			Moderate	High	Moderate	Clay	ML or MH	A-7-5	0	45-55	15-20
381	Unnamed	0-14	20-40	C	Low	Moderate	Low	Gravelly loam or gravelly clay loam	ML or GM	A-4 or A-6	0	25-40	5-15
		14-34			Moderate	High	Moderate	Gravelly clay or gravelly clay loam	CL or ML	A-6, A-7-5	0-20	35-50	15-25
382	Unnamed	0-11	40+	C	Low	Moderate	Low	Gravelly clay loam	GM	A-4 or A-6	0-10	25-40	5-15
		11-74			Moderate	High	Moderate	Very gravelly clay or very gravelly silty clay	GC or CL	A-7-5	0-20	45-55	15-20
701	Unnamed	0- 8	12-20	D	Low	Low	Low	Gravelly loam	SM	A-4, A-2	0-20	20-30	NP- 5
		8-13			Low	Low	Low	Very gravelly loam	GM or CL	A-4 or A-6	0-20	20-30	5-10
704	Carney	0-30	20-40	D	High	High	Low	Clay	CH	A-7-6	0-30	60-75	35-45
705	Unnamed	0- 7	20-40	C	Low	Low	Low	Cobbly clay loam	ML or CL	A-4	0-35	30-35	5-10
		7-31			Moderate	Moderate	Low	Very cobbly clay	CG	A-6, A-7-5	30-60	35-50	15-25
706	Medco	0-13	20-40	D	Moderate	Moderate	Low	Loam or clay loam	ML, SM or GM	A-6 or A-4	0-40	30-40	5-15
		13-27			High	High	Low	Clay	CH	A-7	0-20	60-80	35-50
710	Coker	0-70	40+	D	High	High	Low	Clay	CH	A-7	0- 5	60-75	35-45
712	Jumpoff	0- 5	40+	C	Moderate	Low	Low	Gravelly clay loam	CL-ML, ML	A-4	0	25-35	5-10
		5-52			High	Low	Moderate	Clay	CL or CH	A-7-6	0	45-60	30-40

WS-37

SO-6

Prog. Area: Watershed-Soils
Prep. By: G. Lipscomb
Date: 20 July 77

SO-7

OUTPUT DESCRIPTION
Page 1 of 2

OUTPUT TITLE: Engineering Test Data for Soils

OUTPUT FORM: Printout/Data Display

OUTPUT DESCRIPTION: A table of lab test data for engineering characteristics for soil taxonomic units (see attached)

USER(s): Soils Scientists; Engineers, etc.

LOCATION(s): SC; SOs; DOs; RAHs, etc.

USAGE: As input for development/construction project design, EARs, ESs, URA, etc.

ACCESS LIMITATIONS: None

RESPONSE TIMES: DESIRED: 2-3 days REQUIRED: 1 week

FREQUENCY OF PRODUCTION: Weekly for DO engineers/soil scientists to annually for SC soil scientists

DEPENDENCIES: None

REQUEST PARAMETERS: State, Administrative (100-0004) or
State, Geographic (100-0690);
District, Administrative (100-0543);
County, etc. (100-0546);
Planning Unit (100-1075);
Name, Soil Inventory Area (141-4600);
Soil Name (141-4648)

WS-28

SO-7

OUTPUT TITLE: Engineering Test Data for Soils

SORT ORDER: Identical to sequence of request parameters

ESTIMATED VOLUME: 1 to 3 copies per request with 1 page/copy

COMPUTATIONS/PROCESSES: NA

ACCURACY: NA

SCALE: NA

ANNOTATIONS: NA

LEGEND: NA

REMARKS: None

ENGINEERING TEST DATA FOR SOILS

State (0690)(0004)--Name;
County (0546); District (0543)--Name;
Name of Soil Inv. Area (4600).

[Dashes indicate data were not available. NP means nonplastic. TR means trace]

(4648), (4561) & (4547)	Classification		Grain size distribution											(4571)	(4564)	Moisture density	
				Percentage passing sieve							Percentage smaller than--					(4542)	(4543)
				(4605)													
Soil name, horizon, and depth in inches	AASHTO (4522)	Unified (4523)	Larger than 3 inches	2 inch	3/4 inch	3/8 inch	No. 4	No. 10	No. 40	No. 200	.02 mm	.005 mm	.002 mm	Liquid limit	Plasticity index	Max. dry density	Optimum moisture
			Pct											Pct		Lb/ft³	Pct
			(4606 + 5311)														
Ridqebury fsl (S72ME-031-001)																	
C1X------ 14 to 22	A-2-4(00)	SM	5	100	90	88	84	74	57	27	18	9	4	--	NP	131	8
C2X------ 22 to 40	A-2-4(00)	SM	5	100	93	92	88	84	63	31	20	10	6	--	NP	132	8
Raynham sil (S72MR-031-002)																	
B22G----- 07 to 15	A-4 (00)	ML	0	100	100	100	100	100	97	90	59	20	13	25	1	104	19
C-------- 21 to 40	A-4 (03)	ML	0	100	100	100	100	100	99	95	55	16	10	32	2	104	19
Swanton vfsl (S72ME-031-003)																	
A2G------ 13 to 21	A-4 (00)	SM	0	100	100	100	100	99	96	47	14	4	2	--	NP	109	16
2C1------ 27 to 40	A-7-6(23)	CL	0	100	100	100	100	100	100	99	87	62	5	45	20	98	44
Woodhridge fsl (S72ME-031-004)																	
B21------ 09 to 15	A-4 (00)	SM	5	100	85	83	78	73	62	43	9	2	1	--	NP	107	16
C1X------ 20 to 34	A-2-4(00)	SM	3	100	88	87	82	75	59	34	20	8	2	--	NP	124	11
Deerfield ls (S72ME-031-005)																	
B21------ 07 to 17	A-1-B(01)	SP	0	100	100	99	97	96	45	2	--	--	--	--	NP	103	16
C-------- 28 to 40	A-3 (01)	SP	0	100	100	100	99	99	59	1	--	--	--	--	NP	101	18

WS-30

S0-7

Prog. Area: Watershed-Soils
Prep. By: G. Lipscomb
Date: 20 July 77

SO-8

OUTPUT DESCRIPTION
Page 1 of 2

OUTPUT TITLE: Table of Interpretive Ratings for Selected Soil Properties and Qualities
OUTPUT FORM: Printout/Data Display

OUTPUT DESCRIPTION: A table of information about soil taxonomic units that is significant for management interpretations (see attached)

USER(s): Soil Scientists; Natural Resource Specialists; Planners; Watershed Specialists; etc.

LOCATION(s): SC; SOs; DOs; RAHs; etc.

USAGE: As input to URAs, EARs, ESs, activity plans, land use authorizations, land classifications, etc.

ACCESS LIMITATIONS: None

RESPONSE TIMES: DESIRED: 1 day REQUIRED: 2 to 3 days

FREQUENCY OF PRODUCTION: Weekly for soil scientists at DO to monthly for others

DEPENDENCIES: None

REQUEST PARAMETERS: State, Administrative (100-0004) or
State, Geographic (100-0690);
District, Administrative (100-0543);
County, etc. (100-0546);
Planning Unit (100-1075);
Name, Soil Inventory Area (141-4600);
Unit, Soil Taxonomic (141-4683)

WS-31

SO-8

OUTPUT DESCRIPTION
Page 2 of 2

OUTPUT TITLE: Table of Interpretive Ratings for Selected Soil Properties and Qualities

SORT ORDER: Identical to sequence of request parameters

ESTIMATED VOLUME: 1 to 3 copies per request with 1 page/copy

COMPUTATIONS/PROCESSES: NA

ACCURACY: NA

SCALE: NA

ANNOTATIONS: NA

LEGEND: NA

REMARKS: None

TABLE OF INTERPRETIVE RATINGS FOR SELECTED SOIL PROPERTIES AND QUALITIES

County (0546); State (0690)(0004);
P.U. (1075); District (0543);
Soil Inv. Area (4600)

(4683) Soil Series Symbol	(4648) Soil Name	(4547) Depth (Inches)	(4517) Permeability	(4520) Runoff	(4514) Drainage	(4546) (4569) Limiting Layer	(4533) Available Water Capacity (Inches)	(0755) ERD	(0694) Annual Precipitation (Inches)	(4638) Effective Precipitation (in)	(4556) Compaction Hazard	(4518) (4515) Erosion Condition / Sus.	(4641) Reaction Range	(4557) Flood Hazard	(4661) Frost Susceptibility
36	Witzel	12-20	Moderately Slow		Well Drained		<3		20-35		Slight		5.6-6.0		Moderate
370	Unnamed	40+	Moderate		Well Drained		3-6		35-70+		Moderate		5.8-6.3		Severe
371	Unnamed	20-40	Moderate		Well Drained		3-6		35-70+		Slight		5.6-5.7		Moderate
372	Unnamed	12-20	Moderate		Well Drained		<3		35-70+		Slight		5.8-6.0		Moderate
380	Pollard	40+	Moderately Slow		Well Drained		6-9		35-70+		Severe		5.4-5.5		Severe
381	Unnamed	20-40	Moderately Slow		Well Drained		3-6		35-70+		Moderate-Severe		5.8-6.4		Moderate
382	Unnamed	40+	Moderately Slow		Well Drained		3-6		35-70+		Moderate-Severe		5.8-6.5		Moderate
701	Unnamed	12-20	Moderate-Moderately Rapid		Well Drained-Somewhat Excessively Drained		<3		20-35		Slight		5.6-6.5		Moderate
704	Carney	20-40	Very Slow		Well Drained		<3		18-30		Severe		6.1-7.3		Severe
705	Unnamed	20-40	Moderately Slow		Well Drained		3-6		20-35		Moderate		6.1-7.3		Moderate
706	Medco	20-40	Very Slow		Moderately Well Drained		3-6		20-35		Severe		6.1-6.0		Severe
710	Coker	40+	Very Slow		Somewhat Poorly Drained		6-9		18-25		Severe		6.6-8.4		Severe
712	Jumpoff	40+	Slow-Very Slow		Moderately Well Drained		3-6		30-50		Severe		6.2-6.4		Severe
715	Brader	12-20	Moderate		Well Drained		<3		18-30		Slight		6.0-6.5		Severe
716	Debenger	20-40	Moderate		Well Drained		3-6		18-30		Slight		6.0-6.5		Severe
718	Beekman	20-40	Moderate		Well Drained		3-6		20-35		Slight		6.1-6.6		Moderate
719	Manzanita	40+	Moderately Slow		Well Drained		6-9		20-35		Severe		5.6-6.5		Severe
721	Siskiyou	20-40	Moderately Rapid		Somewhat Excessively Drained		<3		30-50		Slight		5.1-6.0		Severe

33-5.77

Prog. Area: Watershed-Soils
Prep. By: G. Lipscomb
Date: 21 July 77

SO-9

OUTPUT DESCRIPTION
Page 1 of 2

OUTPUT TITLE: Table of Interpretive Ratings for Soil Uses

OUTPUT FORM: Printout/Data Display

OUTPUT DESCRIPTION: A table of soil use limitations and suitabilities by rating classes. (See attached.)

USER(s): Soil Scientists; Engineers; Planners; Natural Resource Specialists; etc.

LOCATION(s): SC: SOs; DOs; RAHs, etc.

USAGE: As input to URAs, EAR's, ES's, activity plans, development/construction project design, land use authorization, etc.

ACCESS LIMITATIONS: None

RESPONSE TIMES: DESIRED: 1 day REQUIRED: 2 to 3 days

FREQUENCY OF PRODUCTION: Weekly for soil scientists at DOs to monthly for others

DEPENDENCIES: None

REQUEST PARAMETERS:
State, Administrative (100-0004) or
State, Geographic (100-0690);
District, Administrative (100-0543);
County, etc. (100-0546);
Planning Unit (100-1075);
Name, Soil Inventory Area (141-4600);
Unit, Soil Taxonomic (141-4683)

WS-34

SO-9

OUTPUT DESCRIPTION
Page 2 of 2

OUTPUT TITLE: Table of Interpretive Ratings for Soil Uses

SORT ORDER: Identical to sequence of request parameters

ESTIMATED VOLUME: 1 to 3 copies per request with 1 to 10 pages/copy

COMPUTATIONS/PROCESSES: NA

ACCURACY: NA

SCALE: NA

ANNOTATIONS: NA

LEGEND: NA

REMARKS: None

WS-35

TABLE OF INTERPRETIVE RATINGS FOR SOIL USES

State (0690)(0004); District (0543);
P.U. (1075); County (0546);
Soil Inv. Area (4600).

(4573)

(4683) (4648)

DEGREE OF LIMITATIONS AND SOIL FEATURES AFFECTING

*Map Symbol	Soil Name	Suitability Road Fill	Pond Location	Pond Embankment	Shallow Excavations	Camp Areas	Picnic Areas	Play Areas	Paths and Trails	Septic Tank Absorption	Sewage Lagoons	Sanitary Landfill	Landscape Plantings
36/V	Witzel, 0-10% slopes	Poor excessive gravel; limited supply of suitable material	Severe <20" to bedrock	Severe excessive coarse fragments	Severe 20" to bedrock	Moderate rock outcrop	Moderate rock outcrop	Severe bedrock at 20"	Moderate rock outcrop	Severe bedrock at 20"	Severe bedrock at 20"	Severe bedrock at 20"	Severe Available water capacity <3"

(4657) (4572)

*Map Symbol	Soil Name	Suitability Road Fill	Pond Location	Pond Embankment	Shallow Excavations	Camp Areas	Picnic Areas	Play Areas	Paths and Trails	Septic Tank Absorption	Sewage Lagoons	Sanitary Landfill	Landscape Plantings
36/W	Witzel, 10-35% slopes	Poor excessive gravel; limited supply of suitable material	Severe <20" to bedrock	Severe excessive coarse fragments	Severe 20" to bedrock	Severe excessive slope gradient	Severe excessive slope gradient	Severe bedrock at 20"	Moderate-Severe rock outcrop; excessive slope gradient	Severe bedrock at 20"	Severe bedrock at 20"	Severe bedrock at 20"	Severe Available water capacity <3"
36/X	Witzel, 35-60% slopes	Poor excessive gravel; limited supply of suitable material	Severe <20" to bedrock	Severe excessive coarse fragments	Severe 20" to bedrock	Severe excessive slope gradient	Severe excessive slope gradient	Severe bedrock at 20"	Moderate-Severe rock outcrop; excessive slope gradient	Severe bedrock at 20"	Severe bedrock at 20"	Severe bedrock at 20"	Severe available water capacity <3"
36/Y	Witzel, 60-85+% slopes	Poor excessive gravel limited supply of suitable material	Severe <20" to bedrock	Severe excessive coarse fragments	Severe 20" to bedrock	Severe excessive slope gradient	Severe excessive slope gradient	Severe bedrock at 20"	Moderate-Severe rock outcrop; excessive slope gradient	Severe bedrock at 20"	Severe bedrock at 20"	Severe bedrock at 20"	Severe available water capacity <3"
370/W	Unnamed, 10-35% slopes	Fair-Poor slopes exceed 15%	Moderate-Severe slopes exceed 15%	Moderate ML or MH material	Moderate-Severe slopes exceed 15%	Moderate-Severe slopes exceed 15%	Moderate-Severe slopes exceed 15%	Severe excessive slope gradient	Moderate-Severe slopes exceed 25%	Moderate-Severe slopes exceed 15%; seasonal water table <48"	Severe slopes exceed 7%	Severe seasonal water table <48"	Moderate available water capacity 3-6"
370/X	Unnamed, 35-60% slopes	Poor excessive slope gradient	Severe excessive slope gradient	Moderate ML or MH material	Severe excessive slope gradient	Severe excessive slope gradient	Severe excessive slope gradient	Severe excessive slope gradient	Severe excessive slope gradient	Severe excessive slope gradient	Severe excessive slope gradient	Severe excessive slope gradient	Moderate available water capacity 3-6"
370/Y	Unnamed, 60-85% slopes	Poor excessive slope gradient	Severe excessive slope gradient	Moderate ML or MH material	Severe excessive slope gradient	Severe excessive slope gradient	Severe excessive slope gradient	Severe excessive slope gradient	Severe excessive slope gradient	Severe excessive slope gradient	Severe excessive slope gradient	Severe, excessive slope gradient	Moderate available water capacity 3-6"
371/W	Unnamed, 10-35% slopes	Poor excessive gravel; excessive slope gradient	Severe <40" to bedrock; excessive slope gradient	Severe >5% fragments exceeding 6" diameter	Severe <40" to bedrock; excessive slope gradient	Severe excessive slope gradient	Severe excessive slope gradient	Severe excessive slope gradient	Severe excessive slope gradient	Severe excessive slope gradient	Severe excessive slope gradient	Severe excessive slope gradient	Moderate available water capacity 3-6"
371/X	Unnamed, 35-60% slopes	Poor excessive gravel; excessive slope gradient	Severe <40" to bedrock; excessive slope gradient	Severe >5% fragments exceeding 6" diameter	Severe <40" to bedrock; excessive slope gradient	Severe excessive slope gradient	Severe excessive slope gradient	Severe excessive slope gradient	Severe excessive slope gradient	Severe excessive slope gradient	Severe excessive slope gradient	Severe excessive slope gradient	Moderate available water capapcity 3-6"
371/Y	Unnamed, 60-85% slopes	Poor excessive gravel; excessive slope gradient	Severe <40" to bedrock; excessive slope gradient	Severe >5% fragments exceeding 6" diameter	Severe <40" to bedrock; excessive slope gradient	Severe excessive slope gradient	Severe excessive slope gradient	Severe excessive slope gradient	Severe excessive slope gradient	Severe excessive slope gradient	Severe excessive slope gradient	Severe excessive slope gradient	Moderate available water capacity 3-6"

*Northerly aspects are not shown but have the same ratings as southerly aspects.

SO-10

Prog. Area: Watershed-Soils
Prep. By: G. Lipscomb
Date: 21 July 77

OUTPUT DESCRIPTION
Page 1 of 2

OUTPUT TITLE: Table of Forest Management Interpretations

OUTPUT FORM: Printout/Data Display

OUTPUT DESCRIPTION: A table of forest management interpretations for soil taxonomic units (see attached)

USER(s): Foresters; Soil Scientists; Planners; etc.

LOCATION(s): SOs; DOs; RAHs; etc.

USAGE: As input to forest management activity plans, reforestation plans, URAs, etc.

ACCESS LIMITATIONS: None

RESPONSE TIMES: DESIRED: 2 to 3 days REQUIRED: 1 week

FREQUENCY OF PRODUCTION: Monthly for DO foresters/soil scientists to annually for SO forester

DEPENDENCIES: None

REQUEST PARAMETERS: State, Administrative (100-0004) or
State, Geographic (100-0690);
District, Administrative (100-0543);
County, etc. (100-0546);
Planning Unit (100-1075);
Name, Soil Inventory Area (141-4600);
Unit, Soil Taxonomic (141-4683)

WS-37

SO-10

OUTPUT DESCRIPTION
Page 2 of 2

OUTPUT TITLE: Table of Forest Management Interpretations

SORT ORDER: Identical to sequence of request parameters

ESTIMATED VOLUME: 1 to 10 copies per request with 1 to 5 pages/copy

COMPUTATIONS/PROCESSES: NA

ACCURACY: NA

SCALE:NA

ANNOTATIONS: NA

LEGEND: NA

REMARKS: None

State(0690)(0004);P.U.(1075);
County(0546);District(0543);
Soil Inv. Area(4600).

TABLE OF FOREST MANAGEMENT INTERPRETATIONS

115-59

	Soil Series Symbol (4683)	Soil Name (4648)	Species (5767)	Productivity Site Index and Class2/ (5750) (5751)	Regeneration Hazard (Bare Root) (4559) (4558)	Remarks (6954)
	36	Witzel	--	--	--	Nonforest soils.
1/	370/n	Unnamed, northerly aspect	Douglas-fir	150-III (4)	Slight (4560)	Soils with higher site index receive seepage water. Windthrow is a hazard in the Low Divide area.
1/	370	Unnamed, southerly aspect	Douglas-fir	130-III (1)	Moderate	Soils with higher site index receive seepage water. Windthrow is a hazard in the Low Divide area.
1/	371/n	Unnamed, northerly aspect	Douglas-fir	115-IV (3)	Moderate	
1/	371	Unnamed, southerly aspect	Douglas-fir	115-IV (3)	Severe	
1/	372/n	Unnamed, northerly aspect	Douglas-fir	100-V (3)	Severe	
1/	372	Unnamed, southerly aspect	Douglas-fir	80-V (1)	Severe	
1/	380/n	Pollard, northerly aspect	Douglas-fir	III	Slight	
1/	380	Pollard, southerly aspect	Douglas-fir	145-III (3)	Moderate	Site class is lower near zones of low precipitation.
1/	381/n	Unnamed, northerly aspect	Douglas-fir	130-III (1)	Moderate	
1/	381	Unnamed, southerly aspect	Douglas-fir	125-IV (2)	Severe	
	382/n	Unnamed, northerly aspect	Douglas-fir	120-IV	Moderate	Site class data are from forest inventory records.
1/	382	Unnamed, southerly aspect	Douglas-fir	115-IV (5)	Moderate	
	701/n	Unnamed, northerly aspect	Douglas-fir	80-V	Severe	Site class data are from SCS records.
			Ponderosa pine	80-V	Severe	Site class data are from SCS records.
	701	Unnamed, southerly aspect	--	--	--	Nonforest soils.
	704	Carney	--	--	--	Nonforest soils.
	705/n	Unnamed, northerly aspect	Douglas-fir	85-V	Severe	Site class data are from SCS records.
	705	Unnamed, southerly aspect		--	--	Nonforest soils.
	706/n	Medco, northerly aspect	Douglas-fir	90-V (1)	--	Site class data are from SCS records.
	706	Medco, southerly aspect	--	--	--	Nonforest soils.
	710	Coker	--	--	--	Nonforest soils.
	712/n	Jumpoff, northerly aspect	Douglas-fir	105-IV	Severe	Site class data are from forest inventory records.
	712	Jumpoff, southerly aspect	Douglas-fir	90-V	Severe	Site class data are from forest inventory records.
	715	Brader	--	--	--	Nonforest soils.
	716	Debenger	--	--	--	Nonforest soils.
	718/n	Beekman, northerly aspect	Douglas-fir	110 to 90-IV to V	Severe	Site class data are from SCS records. Productivity i higher at elevations above 3000 feet.
	718	Beekman, southerly aspect	Douglas-fir	95-V	Severe	Site class data are from forest inventory records.

1/ Soils with measured data.

2/ From tables in Field Instructions for Integrated Forest Survey and Timber Management Inventories in Western Oregon, 1968. BLM, Portland, Oregon. The number in parentheses show number of plots examined with 3 to 5 trees per plot.

Prog. Area: Watershed-Soils
Prep. By: G. Lipscomb
Date: 21 July 77

SO-11

OUTPUT DESCRIPTION
Page 1 of 2

OUTPUT TITLE: Table of Range Management Interpretations

OUTPUT FORM: Printout/Data Display

OUTPUT DESCRIPTION: A table of range management interpretations for soil taxonomic units (see attached)

USER(s): Range Specialists; Soil Scientists; Planners, etc. LOCATION(s): SOs; DOs; RAHs; etc.

USAGE: As input to range management AMPs, range improvement plans, URAs, etc.

ACCESS LIMITATIONS: None

RESPONSE TIMES: DESIRED: 2 to 3 days REQUIRED: 1 week

FREQUENCY OF PRODUCTION: Monthly for DO range specialist/soil scientist to annually for others

DEPENDENCIES: None

REQUEST PARAMETERS: State, Administrative (100-0004) or
State, Geographic (100-0690);
District, Administrative (100-0543);
County, etc. (100-0546);
Planning Unit (100-1075);
Name, Soil Inventory Area (141-4600);
Unit, Soil Taxonomic (141-4683)

WS-40

SO-11

OUTPUT DESCRIPTION
Page 2 of 2

OUTPUT TITLE: Table of Range Management Interpretations

SORT ORDER: Identical to sequence of request parameters

ESTIMATED VOLUME: 1 to 10 copies per request with 1 to 5 pages/copy

COMPUTATIONS/PROCESSES: NA

ACCURACY: NA

SCALE: NA

ANNOTATIONS: NA

LEGEND: NA

REMARKS: None

WS-41

State(0690)(0004); PU(1075);
County(0546);District(0543);
Soil Inv. Area(4600).

TABLE OF RANGE MANAGEMENT INTERPRETATIONS

Soil Symbol (4683)	Soil Name (4648)	Vegetation Sub-Type (2706)	Key Species and Percent Cover (2631)	(3824)	Productive Capacity Potential (4534)	Normal Growing Season (0997) (0998)	Normal Grazing Season (3845)
* 36/n	Witzel, northerly aspect	--	--	--	--	--	--
* 36	Witzel, southerly aspect	--	--	--	--	--	--
*370	Unnamed	--	--	--	--	--	--
*371	Unnamed	--	--	--	--	--	--
*372	Unnamed	--	--	--	--	--	--
*380	Pollard	--	--	--	--	--	--
*381	Unnamed	--	--	--	--	--	--
*382	Unnamed	--	--	--	--	--	--
*701/n	Unnamed, northerly aspect	--	--	--	--	--	--
*701	Unnamed, southerly aspect	--	--	--	--	--	--
704	Carney, southerly aspect	Oak - Pine - Oatgrass	White oak	35-50	2-3	2/15- 7/1	--
			Ponderosa pine	5-15			
			California oatgrass	50-65			
			Idaho fescue	1- 5			
705	Unnamed, southerly aspect	Douglas-fir - Mixed Pine Forest	Douglas-fir	40-60	--	2/15- 7/15	--
			Ponderosa pine	5-10			
			Sugar pine	5-10			
			Western fescue	5-10			
			Mountain brome	Trace- 2			
706/n	Medco, northerly aspect	Douglas-fir Forest	Douglas-fir	65-80	--	3/15- 8/ 1	--
			Madrone	1- 5			
			Black oak	1- 5			
			Western fescue	2- 3			
			Mountain brome	2- 3			
706	Medco, southerly aspect	Oak - Pine - Fescue	White oak	50-70	2-5	2/15- 6/15	--
			Ponderosa pine	Trace- 3			
			Idaho fescue	35-45			
710	Coker, southerly aspect	Oak - Pine - Oatgrass	White oak	35-50	2-3	3/ 1- 7/15	5/ 1-11/ 1
			Black oak	1-10			
			Pacific serviceberry	1- 3			
			Poison oak	1- 3			
			California oatgrass	50-65			
			Idaho fescue	1- 5			
*712	Jumpoff	--	--	--	--	--	--

*These soils are not now used for grazing, or information is not available.

(115-4/32

Prog. Area: Watershed-Soils
Prep. By: G. Lipscomb
Date: 21 July 77

SO-12

OUTPUT DESCRIPTION
Page 1 of 2

OUTPUT TITLE: Table of Watershed Management Interpretations

OUTPUT FORM: Printout/Data Display

OUTPUT DESCRIPTION: A table of watershed management interpretations for soil taxonomic units (see attached)

USER(s): Watershed Specialists; Soil Scientists; Planners; etc.

LOCATION(s): SOs; DOs; RAHs; etc.

USAGE: As input to watershed management activity plans, rehabilitation plans, URAs, etc.

ACCESS LIMITATIONS: None

RESPONSE TIMES: DESIRED: 2-3 days (except immediately for emergency rehabilitation plans) REQUIRED: 1 week

FREQUENCY OF PRODUCTION: Weekly for watershed specialist/soil scientist at DOs to annually for others

DEPENDENCIES: None

REQUEST PARAMETERS:
State, Administrative (100-0004) or
State, Geographic (100-0690);
District, Administrative (100-0543);
County, etc. (100-0546);
Planning Unit (100-1075);
Name, Soil Inventory Area (141-4600);
Unit, Soil Taxonomic (141-4683)

WS-43

SO-12

OUTPUT DESCRIPTION
Page 2 of 2

OUTPUT TITLE: Table of Watershed Management Interpretations

SORT ORDER: Identical to sequence of request parameters

ESTIMATED VOLUME: 1 to 10 copies per request with 1 to 5 pages/copy

COMPUTATIONS/PROCESSES: NA

ACCURACY: NA

SCALE: NA

ANNOTATIONS: NA

LEGEND: NA

REMARKS: None

WS-44

115-45

TABLE OF WATERSHED MANAGEMENT INTERPRETATIONS

State (0690)(0004); District (0543);
P.U. (1075); County (0546);
Soil Invent. Area (4600).

MAP SYMBOL (1)	SOIL NAME (2)	SOIL LIMITATIONS TO VEGETATIVE MANIPULATION AND WATERSHED TILLAGE PRACTICES MECHANICAL EQUIPMENT USAGE												OTHER INTERPRETATION (15)
		RANGELAND									WATERSPREADING			
		DRILL (3)	DISC PLOW (4)	CHAINING (5)	CONTOUR FURROWING (6)	RIPPING (7)	PITTING (8)	TERRACING (9)	TRENCHING (10)	CONSTRUCTION (11)	IRRIGABLE (12)	SEEDING (13)		
		← (4573) →												
4009	Colby loam 3-8% slope	Slight; 3-8% slope >20"	Slight; 3-8% Slope >20"	Slight; 3-8% Slope >20"	Mod; 20"-40" deep	Mod; 20"-40" deep	Mod; 20"-40" deep	Severe; <40" deep	Mod; 20-40" deep	Severe; <40" deep	Mod; 20-40" deep	Slight; >6" Awc >20" deep		
(4683)	(4648)	← (4572) →												(6954)

Remarks

(Instructions on reverse)

Form 7310–26 (August 1973)

Prog. Area: Watershed-Soils
Prep. By: G. Lipscomb
Date: 21 July 77

SO-13

OUTPUT DESCRIPTION
Page 1 of 2

OUTPUT TITLE: Table of Wildlife Management Interpretations

OUTPUT FORM: Printout/Data Display

OUTPUT DESCRIPTION: A table of wildlife management interpretations for soil taxonomic units (see attached)

USER(s): Wildlife Biologists; Soil Scientists; Planners, etc.

LOCATION(s): SOs; DOs; RAHs; etc.

USAGE: As input to wildlife activity plans, URAs, etc.

ACCESS LIMITATIONS: None

RESPONSE TIMES: DESIRED: 2-3 days REQUIRED: 1 week

FREQUENCY OF PRODUCTION: Weekly for wildlife biologist/soil scientist to annually for others

DEPENDENCIES: None

REQUEST PARAMETERS: State, Administrative (100-0004) or
State, Geographic (100-0690);
District, Administrative (100-0543);
County, etc. (100-0546);
Planning Unit (100-1075);
Name, Soil Inventory Area (141-4600);
Code, Watershed (Name) (145-5304);
Unit, Soil Taxonomic (141-4683)

WS-46

SO-13

OUTPUT TITLE: Table of Wildlife Management Interpretations

SORT ORDER: Identical to sequence of request parameters

ESTIMATED VOLUME: 1 to 10 copies per request with 1 to 5 pages/copy

COMPUTATIONS/PROCESSES: NA

ACCURACY: NA

SCALE: NA

ANNOTATIONS: NA

LEGEND: NA

REMARKS: None

WS-47

TABLE OF WILDLIFE MANAGEMENT INTERPRETATIONS

State (0690)(0004); District (0543);
P.U. (1075); County (0546);
Soil Invent. Area (4600).

8/17-5/11

Watershed or Area (Name for 5304)	Dominant Soils (4683)(4648)	KEY SPECIES			*Forest Practices/ Wildlife Habitat Conflict (6546/6542)	Wildlife Management Unit (6599)	Remarks (6954)
		Wildlife (6532)	Browse (3711)	Cover (3711)			
Little Applegate	701, (718) Beekman, (719) Manzanita, (781) Colestine	Black-tailed Deer	Wedgeleaf ceanothus, Mountain mahogany, Black oak, White oak	Ponderosa pine, Douglas-fir, Madrone, Manzanita	Critical Winter Range	Applegate (east)	Deer feed mostly on southerly aspects; cover is on northerly aspects.
Deer Creek	(770) Pearsoll, (R) Rock Land, 371, 372	Black-tailed Deer	Wedgeleaf ceanothus	Douglas-fir, Jeffrey pine, Incense-cedar, Ponderosa pine	Critical Winter Range	Applegate (west)	Deer feed in open brushfields supported by serpentinitic soils; cover is on adjacent forested soils.
Klamath River, Ward Road	880, 882, 790, (R) Rock Land	Black-tailed Deer	Wedgeleaf ceanothus, Fremont silktassel, Snowbrush ceanothus	Douglas-fir, Ponderosa pine, White fir, Juniper	Critical Winter Range	Keno	Deer concentrate in open areas adjacent to plantations.
Agate Flat	(36) Witzel, 705, (R) Rock Land, (706) Medco, (745) Laurelhurst, 840, 842, 850	Black-tailed Deer	Wedgeleaf ceanothus, Serviceberry, White oak	Ponderosa pine, Douglas-fir, White fir, White oak	Critical Winter Range	Rogue	Deer feed on open southerly aspects; cover is in drainageways and on northerly aspects.
Emigrant Creek, Sampson Creek, Lake Creek, Salt Creek	(36) Witzel, 705, (R) Rock Land, (706) Medco, (745) Laurelhurst, 840, 842, 850	Black-tailed Deer	Wedgeleaf ceanothus, White oak	Ponderosa pine, Douglas-fir, White fir, Incense-cedar, White oak	Critical Winter Range	Rogue	Deer feed on open southerly aspects; cover is in drainageways and on forested soils with low site class for Douglas-fir.
Buckhorn Mountain	(770) Pearsoll, (R) Rock Land, (718) Beekman, (781) Colestine, 371, 372	Black-tailed Deer	Wedgeleaf ceanothus, Canyon live oak, Fremont silktassel, White oak	Douglas-fir, Ponderosa pine, Incense-cedar	Critical Winter Range	Powers, Chetco	Deer feed in open brushfields supported by serpentinitic soils; cover is on adjacent forested soils.
Elk Creek	705, (36) Witzel, (706) Medco, (745) Laurelhurst	Black-tailed Deer	Deerbrush ceanothus	Ponderosa pine, Douglas-fir, Madrone	Critical Winter Range	Dixon	Cover is on forested soils with a low site class for Douglas-fir.

*See District URA Wildlife Overlays, page 21, for wildlife management units and deer winter ranges.

Prog. Area: Watershed-Soils
Prep. By: G. Lipscomb
Date: 21 July 77

SO-14

OUTPUT DESCRIPTION
Page 1 of 2

OUTPUT TITLE: Erosion Susceptibility Overlay

OUTPUT FORM: Map/graphic display

OUTPUT DESCRIPTION: A graphic display/hard copy of boundaries of erosion susceptibility classes for a planning area (see attached)

USER(s): Soil Scientists; Planners; Natural Resource Specialists; etc.

LOCATION(s): SC; SOs; DOs; RAHs; etc.

USAGE: As input to URA's, EAR's, ES's, activity plans, development/construction project design, land classification, etc.

ACCESS LIMITATIONS: None

RESPONSE TIMES: DESIRED: 2 to 3 days REQUIRED: 1 week

FREQUENCY OF PRODUCTION: Monthly for soil scientist/planner at DO to annually for others

DEPENDENCIES: None

REQUEST PARAMETERS: State, Geographic (100-0690);
District, Administrative (100-0543);
Name, Soil Inventory Areas (141-4600);
Planning Unit (100-1075) or
a set of coordinates (e.g., Latitude (100-1236) and Longitude (100-1237))

WS-49

SO-14

OUTPUT DESCRIPTION
Page 2 of 2

OUTPUT TITLE: Erosion Susceptibility Overlay

SORT ORDER: NA

ESTIMATED VOLUME: 1 to 3 copies per request

COMPUTATIONS/PROCESSES: NA

ACCURACY: Within 5%

SCALE: Variable (filed at 1:24,000 or 1:62,500)

ANNOTATIONS: See attached

LEGEND: Standard map symbols for depicting three erosion susceptibility classes plus areas with permafrost and/or mantle stability problems (see legend on attachment)

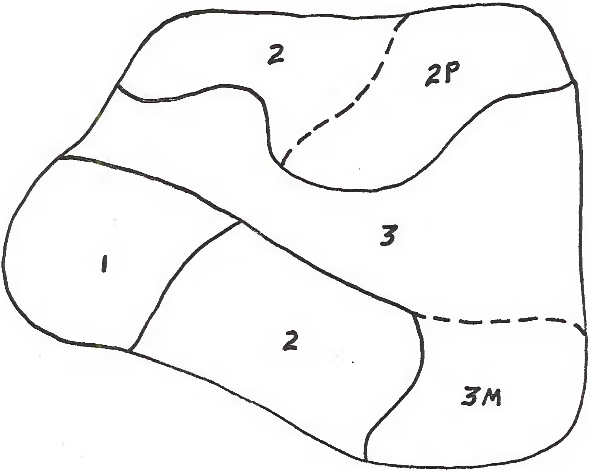
REMARKS: None

WS-50

EROSION SUSCEPTIBILITY OVERLAY

State (0690)(0004)
District (0543)
P.U. No Name (1075)

Date: 2-10-67
(7308)



Planning Unit Boundary (7501)

LEGEND

1 - Slight erosion susceptibility

2 - Moderate erosion susceptibility

3 - Severe erosion susceptibility

P - Permafrost area

M - Mantle stability problem area

WS-51

Prog. Area: Watershed-Soils
Prep. By: G. Lipscomb
Date: 21 July 77

SO-15

OUTPUT DESCRIPTION

Page 1 of 2

OUTPUT TITLE: Erosion Susceptibility Tabulation

OUTPUT FORM: Printout/Data Display

OUTPUT DESCRIPTION: A table giving BLM and other acres by erosion susceptibility class, permafrost and mantle stability problem for a planning area (see attached)

USER(s): Soil Scientists; Planners; Natural Resource Specialists; etc. LOCATION(s): SC; SOs; DOs; RAHs; etc.

USAGE: As input to URA and other planning efforts

ACCESS LIMITATIONS: None

RESPONSE TIMES: DESIRED: 2 to 3 days REQUIRED: 1 week

FREQUENCY OF PRODUCTION: Monthly for DO soil scientist/planner to annually for others

DEPENDENCIES: None

REQUEST PARAMETERS:
State, Administrative (100-0004) or
State, Geographic (100-0690);
District, Administrative (100-0543);
County, etc. (100-0546);
Planning Unit (100-1075);
Acres, National Resource Lands (100-6954);
Acres, Other (161-6597)

115-52

SO-15

OUTPUT DESCRIPTION
Page 2 of 2

OUTPUT TITLE: Erosion Susceptibility Tabulation

SORT ORDER: Identical to sequence of Request Parameters.

ESTIMATED VOLUME: 1 to 3 copies per request with 1 page/copy

COMPUTATIONS/PROCESSES: NA

ACCURACY: NA

SCALE: NA

ANNOTATIONS: NA

LEGEND: NA

REMARKS: None

SO-15

State(0690)(0004); County(0546);
District (0543); P.U. (1075).

Date: 2-10-77 (7308)

Erosion Susceptibility Tabulation

Classification	Land Status			
	BLM Acres	Other Acres	Total Acres	% of Total
Susceptibility				
Classes			P	P
Slight	50,000	3,000	53,000	28
	(4669)	(4672)		
Moderate	100,000	4,200	104,200	55
	(4670)	(4673)		
Severe (4515)	30,000	1,000	31,000	17
	(4671)	(4674)		
Unclassified (4800)	–	–	–	–
Totals P	180,000	8,200	188,200 P	100 P
	(4675)	(4676)		
Permafrost	-	-	-	-
Mantle	5,000	-	5,000	3
Stability	(4677)	(4678)		
Problems			P	P

WS-54

Prog. Area: Watershed-Soils
Prep. By: G. Lipscomb
Date: 21 July 77

SO-16

OUTPUT DESCRIPTION
Page 1 of 2

OUTPUT TITLE: Fragile Area Overlay

OUTPUT FORM: Map/Graphic Display

OUTPUT DESCRIPTION: A graphic display of fragile areas identified within a planning area (see attached)

USER(s): Soil Scientist; Planners; Natural Resource Specialist; etc. LOCATION(s): SC; SOs; DOs; RAHs; etc.

USAGE: As input to URA and other planning efforts

ACCESS LIMITATIONS: None

RESPONSE TIMES: DESIRED: 2 to 3 days REQUIRED: 1 week

FREQUENCY OF PRODUCTION: Monthly for soil scientist/planner at DO to annually for others

DEPENDENCIES: None

REQUEST PARAMETERS: State, Administrative (100-0004) or
State, Geographic (100-0690);
District, Administrative (100-0543);
County, etc. (100-0546);
Planning Unit (100-1075)
Or a set of coordinates
(e.g., Latitude (1001236)
and Longitude (1001237))

WS-55

SO-16

OUTPUT DESCRIPTION
Page 2 of 2

OUTPUT TITLE: Fragile Area Overlay

SORT ORDER: Identical to sequence of request parameters

ESTIMATED VOLUME: 1 to 3 copies per request with 1 page/copy

COMPUTATIONS/PROCESSES: None

ACCURACY: Within 5%

SCALE: Variable (filed at 1:24,000 or 1:62,500)

ANNOTATIONS: See attached

LEGEND: Standard legend for types of fragile areas (see legend on attached output)

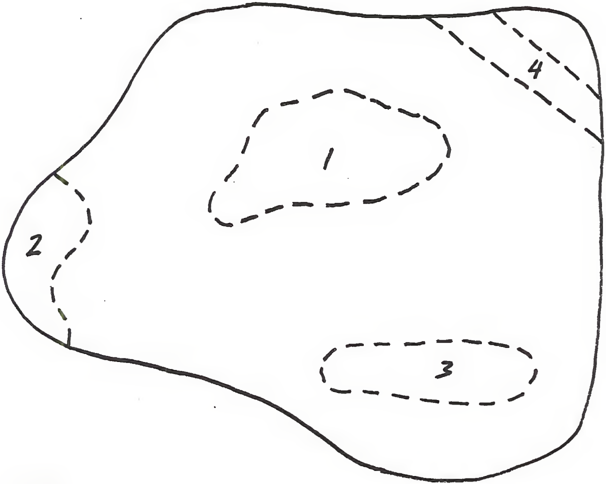
REMARKS:

WS-56

FRAGILE AREA OVERLAY

State (0690)(0004)
District (0543)
P.U. (1075)

Date: (7308)



LEGEND

1 - Landslide hazard area in Tyee sandstone

2 - Shallow soil area

3 - Steep south exposure

4 - Fault zone

WS-57

Prog. Area: Watershed-Soils
Prep. By: G. Lipscomb
Date: 22 Aug. 77

SO-17

OUTPUT DESCRIPTION
Page 1 of 2

OUTPUT TITLE: Soil Inventory Narrative

OUTPUT FORM: Narrative

OUTPUT DESCRIPTION: An inventory narrative which describes the attributes of soil mapping units, taxonomic units, and associations (See Attached).

USER(s): Soil Scientists; Natural Resource Specialists; Planners; etc.

LOCATION(s): SC; SOs; DOs; RAHs; etc.

USAGE:

As input for URA, EARs, ESs, Activity Plans, development project design, land classification, etc.

ACCESS LIMITATIONS: None

RESPONSE TIMES: DESIRED: 2 or 3 days REQUIRED: 1 week

FREQUENCY OF PRODUCTION: Weekly for Soil Scientists at DO to annually for SS at SC

DEPENDENCIES: None

REQUEST PARAMETERS: State, Geographic (100-0690); District, Administrative (100-0543); Name, Soil Inventory Area (141-4600); Planning Unit (100-1075)

WS-58

SO-17

OUTPUT DESCRIPTION
Page 2 of 2

OUTPUT TITLE: Soil Inventory Narrative

SORT ORDER: Identical to request parameters

ESTIMATED VOLUME: 3 to 5 copies per request

COMPUTATIONS/PROCESSES:
None.

ACCURACY: NA

SCALE: NA

ANNOTATIONS: NA

LEGEND: NA

REMARKS:
None

WS-59

SOIL INVENTORY NARRATIVE

State: {0690} Date: {8518}
District: {0543}
Name, Soil Inventory Area: {4600}

Mapping Units:

806-R/VW 1,840 acres. Slopes dominantly are southerly and about cent of the area has gradients of 0 to 10 percent and 30 percent has gradients of 10 to 35 percent. This unit contains about 80 percent of the shallow 806 soils and 20 percent of {R} rock land.

Inclusions consist of the moderately deep 809 soils and what poorly-drained unclassified soils in drainageways.

806-R/X 1,730 acres. Slopes dominantly are southerly and have gradients of 35 to 60 percent. This unit contains about 75 percent of shallow 806 soils and 25 percent of {R} rock land.

Inclusions consist of the moderately deep 809 soils.
(4549)(4550)(4566)(4646)(4668)

WS-60

SO-18

Prog. Area: Watershed-Soils
Prep. By: G. Lipscomb
Date: 22 Aug. 77

OUTPUT DESCRIPTION
Page 1 of 2

OUTPUT TITLE: Erosion Susceptibility Narrative

OUTPUT FORM: Narrative

OUTPUT DESCRIPTION: A URA Step 2 narrative describing the eroseon susceptibility of the soils within a planning area.

USER(s): Soil Sceintists; Natural Resource Specialists; Planners; etc.

LOCATION(s): SOs; DOs; RAHs; etc.

USAGE: As input to Step 2 of URA

ACCESS LIMITATIONS: None

RESPONSE TIMES: DESIRED: 2 or 3 days REQUIRED: 1 week

FREQUENCY OF PRODUCTION: Monthly for soil scientists at DO to annually for soil scientists at SO.

DEPENDENCIES: None

REQUEST PARAMETERS: State, Administrative (100-0004) or State, Geographic (100-0690); District, Administrative (100-0543); Planning Unit (100-1075)

WS-61

OUTPUT DESCRIPTION
Page 2 of 2

SO-18

OUTPUT TITLE:
Erosion Susceptibility Narrative

SORT ORDER:
Identical to request parameters.

ESTIMATED VOLUME: 3 to 5 copies per request

COMPUTATIONS/PROCESSES: None.

ACCURACY:
NA

SCALE:
NA

ANNOTATIONS:
NA

LEGEND:
NA

REMARKS:
None

EROSION SUSCEPTIBILITY NARRATIVE

State: {0004} {0690}　　　　Date: 8518
District: {0543}
Planning Unit: No Name (1075)

Erosion Susceptibility is . . . .
(4679)

Permafrost is found . . . .
(4679)

Mantle stability problems consist of . . . .
(4679)

WS-63

SO-19

Prog. Area: Watershed-Soils
Prep. By: G. Lipscomb
Date: 22 Aug. 77

OUTPUT DESCRIPTION
Page 1 of 2

OUTPUT TITLE: Fragile Area Narrative

OUTPUT FORM: Narrative

OUTPUT DESCRIPTION: A URA Step 2 narrative describing fragile areas for a planning area (See Attached).

USER(s): Soil Scientist; Natural Resource Specialist; Planner; etc.

LOCATION(s): SOs; DOs; RAHs; etc.

USAGE: As input to Step 2 of URA

ACCESS LIMITATIONS: None

RESPONSE TIMES: DESIRED: 2 or 3 days REQUIRED: 1 week

FREQUENCY OF PRODUCTION: Monthly for soil scientists at DO to annually for soil scientists at SO.

DEPENDENCIES: None

REQUEST PARAMETERS: State, Administrative (100-0004) or State, Geographic (100-0690); District, Administrative (100-0543); Planning Unit (100-1075)

SO-19

OUTPUT DESCRIPTION
Page 2 of 2

OUTPUT TITLE: Fragile Area Narrative

SORT ORDER: Identical to request parameters.

ESTIMATED VOLUME: 3 to 5 copies per request.

COMPUTATIONS/PROCESSES: None.

ACCURACY: NA

SCALE: NA

ANNOTATIONS: NA

LEGEND: NA

REMARKS: None

FRAGILE AREA NARRATIVE

State: {0004} {0690}
Date: 8518
District: {0543}
Planning Unit: {1075}

A severe landslide area exists . . . .

(4682)

The shallow soils on the west side . . . .

(4682)

US-66

VO-1

Prog. Area: Watershed-V/C
Prep. By: G. Lipscomb
Date: 21 July 77

OUTPUT DESCRIPTION
Page 1 of 2

OUTPUT TITLE: Watershed Area Map

OUTPUT FORM: Map/Graphic Display

OUTPUT DESCRIPTION: A graphic display of watershed area, vegetation subtype, and transect area boundaries for an inventory area. (See attached.)

USER(s): Watershed specialist; Natural Resource specialist, etc.

LOCATION(s): SO's; DO's; RAH's; etc.

USAGE: As input to URA and other Watershed planning efforts.

ACCESS LIMITATIONS: None

RESPONSE TIMES: DESIRED: 1 to 3 days REQUIRED: 1 week

FREQUENCY OF PRODUCTION: Monthly for DO specialist to annually for others.

DEPENDENCIES: None

REQUEST PARAMETERS:
State, Administrative (100-0004) or
State, Geographic (100-0690);
District, Administrative (100-0543);
Area, Watershed (142-0691);
Vegetation subtype (100-2706). or a set
of coordinates (e.g., latitude (100-1236) and
longitude (100-1237).)

WS-67

OUTPUT DESCRIPTION
Page 2 of 2

OUTPUT TITLE: Watershed Area Map

SORT ORDER: Identical to sequence of request parameters.

ESTIMATED VOLUME: 1 to 3 copies per request with 1 page/copy

COMPUTATIONS/PROCESSES: None

ACCURACY: within 5%

SCALE: Variable (filed at 1:24,000 or 1:62,500)

ANNOTATIONS: (See attached output sample)

LEGEND: Standard map symbols for identifying (1) mapping units for vegetation subtype and transect area of representation; (2) transect location and number; (3) soil surface factors; (4) types of opportunities; and (5) vegetal-soil factors. (See attached sample output.)

REMARKS:

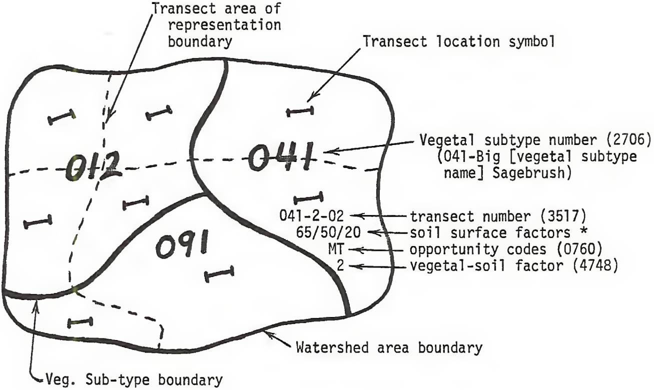
None

WS-68

VO-1

WATERSHED AREA MAP

State (0004) (0690)
District (0543)
Watershed Area (0691) (0693)



* (4712 + 0757 + 0758 + 0759)

WS-69

VO-2

Prog. Area: Watershed-V/C
Prep. By: G. Lipscomb
Date: 21 July 77

OUTPUT DESCRIPTION
Page 1 of 2

OUTPUT TITLE: Determination of Rating Points by Individual Watershed Areas

OUTPUT FORM: Printout/Data Display

OUTPUT DESCRIPTION: A table displaying vegetation sub-type and transect data for Watershed areas plus computations for Watershed area rating points. (See attached)

USER(s): Watershed Specialists; Natural Resource Specialists, etc.

LOCATION(s): SC; SOs; DOs; RAHs; etc.

USAGE: As input to URAs and other planning efforts for Watershed

ACCESS LIMITATIONS: None

RESPONSE TIMES: DESIRED: 1 to 3 days REQUIRED: 1 week

FREQUENCY OF PRODUCTION: Monthly for DO specialists to quarterly for others

DEPENDENCIES: None

REQUEST PARAMETERS: State, Administrative (100-0004), or
State, Geographic (100-0690)
District Administrative (100-0543)
Area, Watershed (142-0691)

WS-70

VO-2

OUTPUT DESCRIPTION
Page 2 of 2

OUTPUT TITLE: Determination of Rating Points by Individual Watershed Areas

SORT ORDER: Identical to sequence of request parameters

ESTIMATED VOLUME: 1 to 3 copies per request with 1 to 5 pages/copy

COMPUTATIONS/PROCESSES: (See copy of ADP Program M062 for Report BRE M062)

ACCURACY: NA

SCALE: NA

ANNOTATIONS: NA

LEGEND: NA

REMARKS: This output is currently produced by the WC & D System (#0008).

WS-71

```
B9EM062                    BLM  WATERSHED  CONSERVATION  AND  DEVELOPMENT  SYSTEM                        DATE  05-14-75
                                PHASE 1  INVENTORY, ANALYSIS AND PRIORITY RATING
SALT LAKE, UTAH            DETERMINATION OF RATING POINTS BY INDIVIDUAL WATERSHED AREAS                  PAGE 3,304

                                ***** GENERAL WATERSHED AREA DESCRIPTION *****

WATERSHED AREA NAME          COUNTY NAME            RIVER    TOTAL     ANNUAL    MONTH  OF     FSD     FUT    WQ      SURVEY
 (0691)(0693)                 (0546)                BASIN    ACRES     PRECIP    PEAK FLOW             DAM            DATE
                                                    (5304)   (4790)    (0694)    (0695)       (4702) (0697) (0705)  (6630)
029 RICH                 033 RICH                    54     230,123     12       MAY           YES    YES    YES     09-73

WATER QUALITY            MEDIUM  DOMESTIC         FISH & WILDLIFE  RECREATION
                         LOW     LIVESTOCK

CAUSE OF WQ PROBLEMS             FORAGE UTIZ PRAC
                         P       NATURAL SITUATION

FLOOD DAMAGE OCCURS ON           AGRICULTURE      PUBLIC


                        ***** PLANNING UNIT, VEGETAL SUBTYPE AND TRANSECT DATA *****

                              WATER  MGT  IMPROVEMENT                                        E  SOIL       SOIL SURFACE    TREAT    V
   SUB        ACRES           POTENT USABLE    TREAT  NBR  TRANSECT-ID  %SUB  % GROUND COVER  R. TEXT  %      FACTUR       CLASS    S
PU TYPE   BLM      OTHER  PC  ACRES  AC.FT.  $ CLASS  TRS  PU ST EX NR  TYPE  VG LT SR LH RG  D  -4/4+  S  PR. FO FM FP  C M M C F
01 012   17,225   1,540   2                                7   01
                                                               012 2 01   29   36 26 07 04 27  11  4 4   10 30 30 25 30         2
                                                               012 2 02   10   33 34 05 03 25  10  4 4   12 34 34 34 34         2
                                                               012 1 03   11   29 27 12 11 21  11  4 4   17 33 33 33 33         2
                                                               012 2 04    8   34 29 10 07 20  11  4 4   09 35 35 30 35         2
                                                               012 1 05    3   36 22 11 13 18  12  4 4   10 38 38 38 38         2
                                                               012 2 06   30   32 33 02 01 32  11  4 4   09 39 39 39 39         2
                                                               012 2 07    9   38 33 03 04 22  10  4 4   09 33 33 33 33         2
01 041  112,286  47,252   1                               31   01
                                                               041 4 01    3   33 18 27 08 14  11  3 3   15 36 36 31 36         2
                                                               041 1 02    4   40 16 18 17 09  12  4 4   45 38 38 33 38         2
                                                               041 3 03    3   36 13 12 15 24  11  4 4   50 37 37 32 37         2
                                                               041 3 04    2   37 16 14 14 19   7  4 3   25 35 35 30 35         3
                                                               041 1 05    3   38 19 15 11 17   9  4 4   30 33 33 28 33         2
                                                               041 4 06    1   34 13 10 14 20  10  4 3   21 35 35 30 35         2
                                                               041 1 07    3   33 22 13 10 22   9  4 4   35 38 38 33 38         2
                                                               041 2 08    3   34 23 12 03 28  10  4 3   12 38 38 34 38         2
                                                               041 3 09    4   30 15 20 10 17   9  4 4   50 48 48 43 48         2
                                                               041 2 10    3   30 26 17 06 21   9  4 4   22 34 34 30 34         2
                                                               041 3 11    3   31 22 13 11 23   9  4 4   26 40 40 32 40         2
                                                               041 1 12    4   29 21 14 15 21   9  4 4   18 46 46 40 46         2
                                                               041 1 13    4   38 22 12 06 22   9  4 4   08 39 39 39 39         2
                                                               041 1 14    3   38 28 07 04 23   8  4 4   09 35 35 30 35         3
                                                               041 4 15    3   29 20 13 20 18  13  4 3   50 46 46 40 46         1
                                                               041 4 16    3   32 25 26 00 11   9  4 4   07 38 38 33 38         2
                                                               041 3 17    4   35 22 17 12 14   9  4 4   07 35 35 30 35         2
                                                               041 2 18    4   34 20 11 07 28  10  4 4   16 39 39 35 39         2
```

415-72

V0-2

BBCM062 BLM WATERSHED CONSERVATION AND DEVELOPMENT SYSTEM DATE 05-14-75
(7308)
PHASE 1 INVENTORY, ANALYSIS AND PRIORITY RATING
SALT LAKE UTAH DETERMINATION OF RATING POINTS BY INDIVIDUAL WATERSHED AREAS PAGE 3,305
(0543) (0690) (0004)

***** PLANNING UNIT, VEGETAL SUBTYPE AND TRANSECT DATA *****

(1075)	(2706)	(6594)	(6597)	(0737)	(0740)	(0741)	(0742)-(0745) (0743)+(0744)+(0745)		(3517)	(1075)	(2706)	(6523)	(3508)	(0749)	(0750)	(0751)	(0752)	(0753)	(0754)	(0755)	(4709)	(4710)	(3874)	(4712)	(0757)	(0758)	(0759)	(0760)	(4748)
		ACRES			WATER MGT IMPROVEMENT					TRANSECT-ID					% GROUND COVER						SOIL TEXT			SOIL SURFACE FACTOR				TREAT CLASS	
PU	SUB TYPE	BLM	OTHER	PC	POTENT ACRES	USABLE AC.FT.	$	TREAT CLASS	NBR TRS	PU	ST	EX	NR	%SUB TYPE	VG	LT	SR	LR	BG	E R P.	-4/	4+	% S	PR	FD	FM	FP	C M M C	V S F
											041	1	19	4	32	21	12	14	21	5	4	4	25	40	40	35	40		2
											041	1	20	2	34	14	13	23	16	10	4	4	52	40	40	40	40		2
											041	2	21	4	34	24	12	10	20	8	4	4	11	34	34	34	34		3
											041	2	22	3	30	22	10	15	23	9	4	4	07	40	40	35	40		3
											041	2	23	3	33	20	11	11	25	9	4	4	16	41	41	36	41		2
											041	4	24	2	32	22	03	00	43	7	2	2	06	36	36	24	20		3
											041	4	25	3	37	23	02	00	38	7	3	2	06	43	49	30	30		3
											041	3	26	4	27	33	07	00	33	9	3	2	04	37	37	28	28		2
											041	1	27	4	47	24	01	00	28	8	3	3	07	28	28	22	22		3
											041	2	28	3	47	28	01	00	24	9	3	3	03	29	29	22	22		2
											041	1	29	4	48	32	00	00	20	8	3	3	05	20	34	20	20		3
											041	3	30	3	26	40	13	02	19	10	3	3	03	32	32	24	24		2
											041	3	31	4	31	36	05	01	27	10	3	3	04	35	35	29	29		2
01	043	13,560	1,960						3	01																			
											043	3	01	42	37	23	01	01	38	9	4	4	15	32	32	27	32		2
											043	3	02	24	32	24	13	09	22	8	3	4	09	32	32	27	32		3
											043	3	03	34	35	23	10	11	21	9	4	4	18	42	42	37	42		3
01	059	20,500	11,280	2					7	01																			
											059	4	01	17	37	20	16	11	16	10	4	4	12	32	32	27	32		2
											059	4	02	18	35	18	17	17	13	9	4	3	40	29	29	25	29		2
											059	1	03	11	38	21	14	16	11	10	4	4	42	36	36	31	36		2
											059	1	04	19	34	23	14	11	18	11	4	4	56	37	37	37	37		2
											059	1	05	17	40	16	14	15	15	10	4	3	47	46	46	40	46		2
											059	1	06	12	40	24	05	05	26	11	4	4	44	38	38	32	38		2
											059	2	07	6	29	28	12	19	12	10	4	4	47	39	39	34	39		2
01	091	3,220	1,300	1					1	01																			
											091	4	01	100	27	13	12	32	16	9	4	3	40	61	61	61	61		2
		166,791	63,332						49					500	⑶④ 34	23	11	09	22	9				37	37	32	35		
									P					(4752)	(4753)	(4754)	(4755)	(4756)	(4757)	(4758)				(4759)	(4760)	(4761)	(4762)		
		P	P	,123																									

Rounded

```
CALCULATIONS FOR COMPUTING WATERSHED RATING POINTS (WRP) FOR WATERSHED 029  RICH

          STEP-1 COMPUTATIONS!
   (4763) PERCENT PRODUCTIVE ACRES                      (   PPA) =          1.000
   (4757) WEIGHTED PRESENT PERCENT BARE GROUND          ( WPPBG)✓=         22.037
   (4758) WEIGHTED EFFECTIVE ROOT DEPTH                 (  WERD)✓=          9.468
   (4759) WEIGHTED PRESENT SOIL SURFACE FACTOR          (WPRSSF)✓=         37.240
   (4760) WEIGHTED FUTURE W/O SOIL SURFACE FACTOR       (WFOSSF)✓=         37.758
   (4762) WEIGHTED FUTURE W/P SOIL SURFACE FACTOR       (WFPSSF)✓=         35.840
   (4764) WATERSHED PRODUCTIVITY INDEX                  (   WPI) =         41.994
   (4765) PRESENT COVER FACTOR                          (   PCF) =          3.000
   (4766) PRESENT SOIL COVER FACTOR                     (  PSCF) =         29.068
   (4767) FUTURE W/O SOIL COVER FACTOR                  ( FOSCF) =         29.431
   (4768) FUTURE W/P SOIL COVER FACTOR                  ( FPSCF) =         28.088
   (4769) PRESENT WATERSHED RATING POINTS               (  PWRP) =  PPA * WPI * PSCF                =    1,220.682
   (4770) IMPROVEMENT POTENTIAL                         (   IMP) =  PPA * WPI * (FOSCF - FPSCF)    =       56.398
   (4771) STEP-1 WATERSHED RATING POINTS                (  WRP1) =  PWRP + IMP                      =    1,277.080

          STEP-2 COMPUTATIONS
   (4772) STEP-2 WATERSHED RATING POINTS                (  WRP2) =  AC.FT * $ - 300 / AC            =         .000

   (4773) TOTAL WATERSHED RATING POINTS                 (   WRP) =  WRP1 + WRP2                     =    1,277.080
```

11-5-74

V0-2

VO-3

Prog. Area: Watershed-V/C
Prep. By: G. Lipscomb
Date: 21 July 77

OUTPUT DESCRIPTION
Page 1 of 2

OUTPUT TITLE: Ranking of Individual Watershed Areas Within Districts

OUTPUT FORM: Printout/Data Display

OUTPUT DESCRIPTION: A table summarizing Watershed area data for a District, and given in priority ranking order (see attached).

USER(s): Watershed Specialist; Natural Resource Specialist; etc.

LOCATION(s): SC; Sos; DOs; RAHs, Etc.

USAGE: As input to Watershed activity planning.

ACCESS LIMITATIONS: None

RESPONSE TIMES: DESIRED: 1-3 days REQUIRED: 1 week

FREQUENCY OF PRODUCTION: Monthly for DO specialists to quarterly for others.

DEPENDENCIES: None

REQUEST PARAMETERS:
State, Administrative (100-0004) or
State, Geographic (100-0690);
District, Administrative (100-0543);
Planning Unit (100-1075);
Area, Watershed (142-0691)

WS-75

OUTPUT DESCRIPTION
Page 2 of 2

OUTPUT TITLE: Ranking of Individual Watershed Areas Within Districts

SORT ORDER: Identical to sequence of request parameters

ESTIMATED VOLUME: 3 to 6 copies per request with 1 to 3 pages/copy

COMPUTATIONS/PROCESSES: (See copy of ADP Program M063 for Report ARE M063)

ACCURACY: NA

SCALE: NA

ANNOTATIONS: NA

LEGEND: NA

REMARKS: This output is currently produced by the WC & D System (#0008).

BLM WATERSHED CONSERVATION AND DEVELOPMENT SYSTEM
PHASE I: INVENTORY AND ANALYSIS OF WATERSHED DATA

DATE 05-26-76

RANKING OF INDIVIDUAL WATERSHED AREAS WITHIN ARIZ STRIP(0543) Arizona(0004)

(7308)
PAGE 1

(0004) (0543) (0691) WATERSHED ST DI AREA	(6594) ACREAGES BLM	(6597) OTHER	(0694) PRECIP	(4757) PPWQ	(4758) EHD	(4759) PSSF	(4760) FOSSF	(4761) FMSSF	(4762) FPSSF	(4763) PPA	(4764) WPI	(4769) PWRP	(4770) IWP	(4771) WRP-1	(4768) FSD	(0705) WQ	(0741) AC.FT	(4772) WRP-2	(4773) TOTAL WRP	P SEQ	P AS PR
AZ 01 013	10,239	854	10	47	13	44				1.00	39	1,644		1,644	NO				1,644	1	
AZ 01 010	[illegible]	5,464	11	27	13	40				1.00	43	1,413		1,413	NO				1,413	2	
AZ 01 014	0	14,304	15	11	13	30				1.00	56	1,274		1,274	NO				1,274	3	
AZ 01 012	43,427	6,519	12	10	11	39				1.00	43	1,170		1,170	NO				1,170	4	

P
TOTAL ACRES 141,474 BLM, AND 40,023 OTHER CONTAINED IN 4 WATERSHED AREAS IN CURRENT PHASE 1 NEEDING UPDATE

WATERSHED ST DI AREA	ACREAGES BLM	OTHER	PRECIP	PPWQ	EHD	PSSF	FOSSF	FMSSF	FPSSF	PPA	WPI	PWRP	IWP	WRP-1	FSD	WQ	AC.FT	WRP-2	TOTAL WRP	P SEQ	P AS PR
AZ 01 015	31,300	2,990	11	57	10	47	53	42	42	1.00	49	2,318	388	2,697	YES	NO			2,697	1	
AZ 01 016	[illegible]	[illegible]	11	49	15	44	54	41	41	1.00	46	1,985	433	2,419	YES	NO			2,419	2	
AZ 01 002	201,810	81,514	14	10	10	40	43	36	22	1.00	49	1,435	752	2,187	YES	YES			2,187	3	
AZ 01 004	[illegible]	[illegible]	12	24	13	46	49	54	33	1.00	42	1,532	475	2,039	YES	YES			2,039	4	
AZ 01 001	194,749	14,249	10	17	13	45	46	43	17	1.00	36	1,240	741	2,001	YES	YES			2,001	5	
AZ 01 003	[illegible]	15,955	12	17	13	46	48	44	32	1.00	42	1,473	461	1,936	YES	YES			1,936	6	
AZ 01 005	242,557	8,800	9	15	14	39	40	34	9	1.00	37	1,074	814	1,888	YES	YES			1,888	7	
AZ 01 006	[illegible]	[illegible]	12	8	13	42	44	40	28	1.00	42	1,294	525	1,819	YES	YES			1,819	8	
AZ 01 009	41,633	5,943	12	17	8	46	51	41	37	1.00	40	1,413	388	1,801	YES	YES			1,801	9	
AZ 01 002	[illegible]	5,400	10	11	7	46	49	45	23	1.00	33	1,128	607	1,735	YES	YES			1,735	10	
AZ 01 019	114,657	10,483	9	26	11	45	53	39	39	.95	35	1,199	336	1,536	YES	NO	19000		1,536	11	
AZ 01 053	22,520		10	49	15	42	35	27	27	1.00	41	1,214	240	1,492	YES	YES			1,492	12	
AZ 01 007	121,879	9,840	10	13	8	31	33	26	24	1.00	34	830	224	1,064	YES	YES			1,064	13	

P
TOTAL ACRES 1,737,393 BLM, AND 146,109 OTHER CONTAINED IN 13 WATERSHED AREAS IN CURRENT PHASE 1 UPDATED

WATERSHED ST DI AREA	ACREAGES BLM	OTHER	PRECIP	PPWQ	EHD	PSSF	FOSSF	FMSSF	FPSSF	PPA	WPI	PWRP	IWP	WRP-1	FSD	WQ	AC.FT	WRP-2	TOTAL WRP	P SEQ	P AS PR
AZ 01 011	74,874	16,385	10	36	13	42				1.00	40	1,438		1,438	NO				1,438	1	71

P
TOTAL ACRES 74,874 BLM, AND 16,385 OTHER CONTAINED IN 1 WATERSHED AREAS IN CURRENT PHASE 1 SELECTED

P
TOTAL ACRES 1,957,352 BLM, AND 232,607 OTHER CONTAINED IN 18 WATERSHED AREAS IN ENTIRE DISTRICT

WS-76.1

V0-3

VO-4

Prog. Area: Watershed-V/C
Prep. By: G. Lipscomb
Date: 22 July 77

OUTPUT DESCRIPTION
Page 1 of 2

OUTPUT TITLE: Erosion Classification Report

OUTPUT FORM: Printout/Data Display

OUTPUT DESCRIPTION: A table summarizing the acres in present and future erosion condition classes by vegetation subtype and Watershed area. (See attached.)

USER(s): Watershed Specialist; Natural Resource Specialist; Planners; etc.

LOCATION(s): WO; SC; SOs; DOs; RAHs; etc.

USAGE: As input to Watershed activity planning, and for statistical reports.

ACCESS LIMITATIONS: None

RESPONSE TIMES: DESIRED: 1 to 3 days REQUIRED: 1 week

FREQUENCY OF PRODUCTION: Monthly for DO specialists to annually for others.

DEPENDENCIES: None

REQUEST PARAMETERS: State, Administrative (100-0004) or
State, Geographic (100-0690;
District, ADministrative (100-0543);
Planning Unit (100-1075);
Area, Watershed (142-0691)

WS-77

OUTPUT DESCRIPTION
Page 2 of 2

OUTPUT TITLE: Erosion Classification Report

SORT ORDER: Identical to sequence of request parameters

ESTIMATED VOLUME: 1 to 3 copies per request with 1 to 3 pages/copy

COMPUTATIONS/PROCESSES: (See copy of ADP Program M064 for Report DRE M064)

ACCURACY: NA

SCALE: NA

ANNOTATIONS: NA

LEGEND: NA

REMARKS: This output is currently produced by the WC & D System (#0008)

NAME

ARIZ.STRIP (0543) ARIZONA (0004/0690)

BLM WATERSHED CONSERVATION AND DEVELOPMENT SYSTEM
PHASE I INVENTORY AND ANALYSIS OF WATERSHED DATA

DATE 06-10-76 (7308)

* * * EROSION CLASSIFICATION REPORT * * *

PAGE 1

WATERSHED (0004) (0690) (0543) (0691)	IDENTIFIER (1075) (2706) (6523) (3508)	(2706)	ACRES BY PRESENT EROSION CONDITION CLASSES STABLE 1 - 20 (4720)	SLIGHT 21 - 40 (4721)	MODERATE 41 - 60 (4722)	CRITICAL 61 - 80 4723)	SEVERE 81 - 100 (4724)	ACRES BY FUTURE EROSION CONDITION CLASSES STABLE 1 - 20 (4725)	SLIGHT 21 - 40 (4726)	MODERATE 41 - 60 (4727)	CRITICAL 61 - 80 (4728)	SEVERE 81 -100 (4729)
AZ 01 001	01 052 3 14				3446				3446			
SUBTOTAL BY VEG SUBTYPE		052			3446				3446			
P AZ 01 001	01 059 4 12				3 58					3358		
SUBTOTAL BY VEG SUBTYPE		059			3 58					3358		
P AZ 01 001	01 091 4 01				5327					5327		
	4 02				5327					5327		
	1 03				5993					5993		
SUBTOTAL BY VEG SUBTYPE		091			16647					16647		
P AZ 01 001	01 111 5 15			5287					5287			
	5 16			3965					3965			
	5 17			5287					5287			
	5 18				3965					3965		
	3 19				5287					5287		
	2 20				5287				5287			
	4 21				5287				5287			
	4 22				5287				5287			
	4 23				5287				5287			
	4 24				5287					5287		
	4 25				4626					4626		
	1 26			5287					5287			
	1 27				4626					4626		
	1 29				1322				1322			
SUBTOTAL BY VEG SUBTYPE		111		19826	46261				42296	23791		
P AZ 01 001	01 161 4 13				1769					1769		
SUBTOTAL BY VEG SUBTYPE		161			1769					1769		
P AZ 01 001	01 184 4 30			3836					3835			
SUBTOTAL BY VEG SUBTYPE		184		3836					3836			
P AZ 01 001	01 167 2 04				4131					4131		
	3 05				5967					5967		
	3 06			5508					5508			
	3 07					5049					5049	
	3 08				5508					55 8		
	1 09				4131					4131		
	4 10				6426					6426		
	4 11			3672					3672			
	4 28				5508					5508		
SUBTOTAL BY VEG SUBTYPE		167		9180	31671	5049			9180	31671	5049	

P

VO-4

VO-5

Prog. Area: Watershed-V/C
Prep. By: G. Lipscomb
Date: 22 July 77

OUTPUT DESCRIPTION
Page 1 of 2

OUTPUT TITLE: Acres by ECC by Planning Unit

OUTPUT FORM: Printout/Data Display

OUTPUT DESCRIPTION: A table summarizing the acres by erosion condition classes for present and future conditions on BLM and other lands. (See attached)

USER(s): Watershed Specialist; Natural Resource Specialist; Planners; etc.

LOCATION(s): SOs; DOs; RAHs; etc.

USAGE: As input to URA, and Watershed activity planning

ACCESS LIMITATIONS: None

RESPONSE TIMES: DESIRED: 1 to 3 days REQUIRED: 1 week.

FREQUENCY OF PRODUCTION: Monthly for DO specialists to annually for others.

DEPENDENCIES: None

REQUEST PARAMETERS: State, ADministrative (100-0004) or
State, Geographic (100-0690);
District, Administrative (100-0543);
Planning Unit (100-1075);
Area, Watershed (142-0691)

WS-80

OUTPUT DESCRIPTION
Page 2 of 2

OUTPUT TITLE: Acres by ECC by Planning Unit

SORT ORDER: Identical to sequence of request parameters

ESTIMATED VOLUME: 1 to 3 copies per request with 3 to 10 pages/copy

COMPUTATIONS/PROCESSES: (See copy of ADP Program M065 for Report FREM065)

ACCURACY: NA

SCALE: NA

ANNOTATIONS: NA

LEGEND: NA

REMARKS: This output is currently produced by the WC & D System (#0008)

WS-81

U S DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT FREM065

ARIZ STRIP (0543) ARIZONA (0004) (0690) WATERSHED CONSERVATION AND DEVELOPMENT SYSTEM DATE 06-10-76 (7308)

FREM065: ACRES BY ECC BY PLANNING UNIT

WATERSHED IDENTIFIER UI	W-A	PU	VEG	E	NR	BLM ACRES	OTHER ACRES	P C VEG		EROSION CONDITION CLASSES ON BLM LAND 6594: STABLE	SLIGHT	MODERATE	CRITICAL	SEVERE	EROSION CONDITION CLASSES ON OTHER LAND (6597): STABLE	SLIGHT	MODERATE	CRITICAL	SEVER
01	001	01	111	5	⑱	66091	15009	06	P=SSF			3965					901		
									FUSSF			3965					901		
									FMSSF			3965					901		
									FPSSF			3965					901		
(0691)	(1075)	(2706)	(6523)	(3508)		(6594)	(6597)	(0749)											
01	001	01	161	4	13	1769		100	P=SSF	(4730)	(4731)	(4732) 1769	(4733)	(4734)	(4735)	(4736)	(4737)	(4738)	(4739)
									FUSSF			1769							
									FMSSF			1769							
									FPSSF			1769							
01	001	01	164	4	30	3836		100	P=SSF	(4712)	3836								
									FUSSF	(0757)	3836								
									FMSSF	(0758)	3836								
									FPSSF	(0759)	3836								
01	001	01	167	1	09	45901	1260	09	P=SSF			4131					113		
									FUSSF			4131					113		
									FMSSF			4131					113		
									FPSSF			4131					113		
01	001	01	167	2	04	45901	1260	09	P=SSF			4131					113		
									FUSSF			4131					113		
									FMSSF			4131					113		
									FPSSF			4131					113		
01	001	01	167	3	05	45901	1260	13	P=SSF			5967					164		
									FUSSF			5967					164		
									FMSSF			5967					164		
									FPSSF			5967					164		
01	001	01	167	3	06	45901	1260	12	P=SSF		5508					151			
									FUSSF		5308					151			
									FMSSF		5508					151			
									FPSSF		5508					151			
01	001	01	167	3	07	45901	1260	11	P=SSF				5049					139	
									FUSSF				5049					139	
									FMSSF				5049					139	
									FPSSF				5049					139	
01	001	01	167	3	08	45901	1260	12	P=SSF			5508					151		
									FUSSF			5508					151		
									FMSSF			5508					151		
									FPSSF			5508					151		

11-18-82

V0-5

```
                                        U S DEPARTMENT OF THE INTERIOR     BUREAU OF LAND MANAGEMENT
                                                                                                                      DATE 08-10-78
ARIZ STRIP    ARIZONA                       WATERSHED  CONSERVATION  AND  DEVELOPMENT  SYSTEM
                                                                                                                      PAGE      4
                                            FREM0651  ACRES BY ECC BY PLANNING UNIT

WATERSHED IDENTIFIER     BLM      OTHER  P C      EROSION CONDITION CLASSES ON BLM LAND    EROSION CONDITION CLASSES ON OTHER LAND
 UI W-A  PU VEG E NR    ACRES    ACRES  VEG      STABLE  SLIGHT MODERATE CRITICAL SEVERE   STABLE SLIGHT MODERATE CRITICAL SEVERE
                                                                                                          170
 01 001  01 167 4 10   45901     1260  14 P-SSF                  6426
                                          FOSSF                  6426                                     170
                                          FMSSF                  6426                                     176
                                          FPSSF                  6426                                     176

                                                                                                  101
 01 001  01 167 4 11   45901     1260  08 P-SSF          3672
                                          FOSSF                  3672                                     101
                                          FMSSF          3672                                     101
                                          FPSSF          3672                                     101

                                                                                                          151
 01 001  01 167 4 28   45901     1260  12 P-SSF                  5508
                                          FOSSF                  5508                                     151
                                          FMSSF                  5508                                     151
                                          FPSSF                  5508                                     151



                                                                                                  4756    11377      139
    WATERSHED       01 TOTALS ARE          P-SSF          32842   102852    5049                 29.2     69.9       .9
                                            % ARE         23.3     73.1     3.6                  1352    14781      139
                                           FOSSF          14031   121063    5049                  8.3     90.8       .9
                                            % ARE         10.4     86.0     3.6                  7458     8675      139
                                           FMSSF          48184    87510    5049                 45.8     53.3       .9
                                            % ARE   P     34.2     62.2     3.6                  9860     6273      139
                                           FPSSF          58758    76936    5049                 60.6     38.6       .9
                                            % ARE         41.7     54.7     3.6
```

3-8-78

VO-6

Prog. Area: Watershed-V/C
Prep. By: G. Lipscomb
Date: 22 July 77

OUTPUT DESCRIPTION
Page 1 of 2

OUTPUT TITLE: Stable Acres by Planning Unit

OUTPUT FORM: Printout/Data Display

OUTPUT DESCRIPTION: A table summarizing present and future stable acres for a planning unit (see attached).

USER(s): Watershed Specialist; Natural Resource Specialist; etc.

LOCATION(s): SO; DOs; RAHs; etc.

USAGE: As input to Watershed activity planning and programming actions.

ACCESS LIMITATIONS: None

RESPONSE TIMES: DESIRED: 1 to 3 days REQUIRED: 1 week

FREQUENCY OF PRODUCTION: Monthly for DO to annually for others

DEPENDENCIES: None

REQUEST PARAMETERS: State, Administrative (100-0004) or
State, Geographic (100-0690);
District, Administrative (100-0543);
Planning Unit (100-1075);
Area, Watershed (142-0691)

IWS-84

VO-6

OUTPUT DESCRIPTION
Page 2 of 2

OUTPUT TITLE: Stable Acres by Planning Unit

SORT ORDER: Identical to sequence of request parameters

ESTIMATED VOLUME: 1 to 3 copies per request with 3 to 10 pages/copy

COMPUTATIONS/PROCESSES: (See copy of ADP Program M065 for Report JREM065)

ACCURACY: NA

SCALE: NA

ANNOTATIONS: NA

LEGEND: NA

REMARKS: This output is currently produced by the WC & D System (#0008)

WS-85

U S DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT JREM065

ARIZ STRIP ARIZONA WATERSHED CONSERVATION AND DEVELOPMENT SYSTEM DATE 09-01-76 (7308)

JREM0651 STABLE ACRES BY PLANNING UNIT PAGE 13

WATERSHED IDENTIFIER UI (0543)	W-A (0691)	PU (1075)	VEG (2706)	E (6523)	NR (3508)	ACRES (4747)	PRESENT SSE & ACRES (4740)	FUTURE W-O CHANGE (4741)	FUTURE WITH MGT CHANGE (4742)	FUTURE WITH ADDL PRACTICE (4743)	OPPORTUNITY IN TERMS OF STABLE ACRE W-O CHANGE (4744)	WITH CHANGE (4745)	ADL PRACTIC (4746)
01	029	01	041	5	06	4,120	3,605	3,296	3,863	4,120	-309	+567	+824
01	029	01	041	5	11	5,035	4,846	4,594	5,035	5,287	-252	+441	+693
01	029	01	041	5	44	915	538	423	549	583	-115	+126	+160
01	029	01	062	1	12	1,673	1,276	1,171	1,359	1,359	-105	+188	+188
01	029	01	091	1	23	4,082	3,776	3,674	3,878	4,082	-102	+204	+408
01	029	01	091	1	24	5,443	3,810	3,606	4,150	4,559	-204	+544	+953
01	029	01	091	1	28	5,443	2,722	2,381	3,130	4,082	-341	+749	+1701
01	029	01	091	1	29	5,443	3,810	3,538	3,946	4,082	-272	+408	+544
01	029	01	091	1	30	5,443	3,130	2,994	3,266	3,266	-136	+272	+272
01	029	01	091	1	39	1,361	1,361	1,344	1,361	1,361	-17	+17	+17
01	029	01	091	2	17	4,082	3,419	3,317	3,572	3,776	-102	+255	+459
01	029	01	091	2	31	4,082	2,602	2,347	2,857	3,062	-255	+510	+715
01	029	01	091	2	34	5,443	4,218	3,878	4,354	4,627	-340	+476	+749
01	029	01	091	2	35	5,443	3,402	3,198	3,062	4,082	-204	-136	+884
01	029	01	091	2	36	5,443	3,538	3,266	3,674	4,286	-272	+408	+1020
01	029	01	091	2	37	5,443	4,490	4,150	4,967	5,307	-340	+817	+1157
01	029	01	091	3	15	5,443	3,810	3,674	3,946	4,014	-136	+272	+340
01	029	01	091	3	19	5,443	4,218	4,082	4,286	4,286	-136	+204	+204
01	029	01	091	3	21	5,443	4,150	3,810	4,559	4,559	-340	+749	+749
01	029	01	091	3	25	5,443	4,422	4,286	4,627	4,763	-136	+341	+477
01	029	01	091	3	33	5,443	5,511	5,375	5,647	5,647	-136	+272	+272
01	029	01	091	3	38	5,443	4,218	4,082	4,354	4,763	-136	+272	+681
01	029	01	091	4	18	5,443	4,286	3,946	4,490	4,490	-340	+544	+544
01	029	01	091	4	20	5,443	4,286	4,150	4,354	4,354	-136	+204	+204
01	029	01	091	4	26	5,443	5,375	5,307	5,647	5,647	-68	+340	+340
01	029	01	091	4	27	5,443	4,014	3,742	4,218	4,422	-272	+476	+680
01	029	01	091	4	32	5,443	4,150	3,742	4,286	4,286	-408	+544	+544
01	029	01	091	5	13	5,443	4,422	4,150	5,171	5,307	-272	+1021	+1157
01	029	01	091	5	14	5,443	4,763	4,354	5,103	5,171	-409	+749	+817
01	029	01	091	5	16	2,721	1,531	1,429	1,599	1,837	-102	+170	+408
01	029	01	091	5	22	5,443	4,422	3,946	4,559	4,967	-476	+613	+1021
01	029	01	161	2	43	4,376	1,969	1,641	2,079	2,079	-328	+438	+438
01	029	01	161	3	40	4,551	2,446	2,162	2,731	2,731	-284	+569	+569
01	029	01	161	3	41	5,076	3,109	2,919	3,173	3,617	-190	+254	+698
01	029	01	161	3	42	3,500	1,619	1,400	1,750	1,750	-219	+350	+350
WTRSHED TOTAL 029						2,691,450	1,918,407	1,831,827	1,997,254	2,063,856	-86580	+165427	+232029
P PLANNING UNIT 01 TOTAL						2,691,450	1,918,407	1,831,827	1,997,254	2,063,856	-86580	+165427	+232029
01	007	02	012	3	01	5,264	4,911	5,131	5,498	5,498	+220	+367	+367
01	007	02	013	1	05	4,290	3,539	3,432	3,754	3,754	-107	+322	+322
01	007	02	013	2	01	6,196	5,499	5,267	6,196	6,196	-232	+929	+929
01	007	02	013	2	02	4,051	3,089	2,937	3,798	3,798	-152	+861	+861
01	007	02	013	2	03	5,958	4,990	4,766	5,586	5,586	-224	+820	+820
01	007	02	013	3	04	3,336	2,836	2,919	3,128	3,128	+83	+209	+209

MS-82

V0-6

VO-7

Prog. Area: Watershed-V/C
Prep. By: G. Lipscomb
Date: 22 July 77

OUTPUT DESCRIPTION
Page 1 of 2

OUTPUT TITLE: Tabulated Acreages by Limiting Vegetal-Soil Factor Ratings

OUTPUT FORM: Printout/Data Display

OUTPUT DESCRIPTION: A table summarizing BLM and other acreages by vegetal-soil factor rating class (see attached).

USER(s): Watershed Specialist; Natural Resource Specialist; Planners; etc.

LOCATION(s): SO; DOs; RAHs; etc.

USAGE: As input to URA

ACCESS LIMITATIONS: None

RESPONSE TIMES: DESIRED: 1 to 3 days REQUIRED: 1 week

FREQUENCY OF PRODUCTION: Monthly for DO specialists/planners to annually for others.

DEPENDENCIES: None

REQUEST PARAMETERS:
State, Administrative (100-0004) or
State, Geographic (100-0690);
District, Administrative (100-0543);
Planning Unit (100-1075);
Area, Watershed (142-0691)

WS-87

OUTPUT DESCRIPTION
Page 2 of 2

OUTPUT TITLE: Tabulated Acreages by Limiting Vegetal-Soil Factor Ratings

SORT ORDER: Identical to sequence of request parameters

ESTIMATED VOLUME: 1 to 3 copies per request with 1 page/copy

COMPUTATIONS/PROCESSES: (See copy of ADP Program M065 for Report KREM065)

ACCURACY: NA

SCALE: NA

ANNOTATIONS: NA

LEGEND: NA

REMARKS: This output is currently produced by the WC & D System (#0008).

WS-88

U S DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT KREM065

ARIZ STRIP ARIZONA WATERSHED CONSERVATION AND DEVELOPMENT SYSTEM DATE 09-02-76

(0004/0690) (7308)

KREM065, TABULATED ACREAGES BY LIMITING VEGETAL-SOIL FACTOR RATINGS PAGE 1

U I (0543)	P U (1075)	W A (0691)	BLM ACRES (6594) LOW(1) (4713)	BLM ACRES MED(2) (4714)	BLM ACRES HIGH(3) (4715)	OTHER ACRES (6597) LOW(1) (4716)	OTHER ACRES MED(2) (4717)	OTHER ACRES HIGH(3) (4718)	SUB-TOTAL (4719)
01	01	001	54251	18464	68028	7309	164	8799	157015
01	01	002	9643	15492	83734	151	459	4989	114468
01	01	003	42155	99686	5104	3770	13023	62	163800
01	01	004	58416	120414	21688	13050	30916	3157	247641
01	01	005	144895	92299	5362	4857	3640	298	251351
01	01	006	8111	34360	39422	733	2432	2775	87833
01	01	008	73823	67189	30085	2039	2237	646	176019
01	01	009	86541	82246	33101	17069	17386	7072	243415
01	01	021	54251	18464	68028	7309	164	8799	157015
01	01	022	9643	15492	83734	151	459	4989	114468
01	01	023	42155	99686	5104	3770	13023	62	163800
01	01	024	58416	120414	21688	13050	30916	3157	247641
01	01	025	144895	92299	5362	4857	3640	298	251351
01	01	026	8111	34360	39422	733	2432	2775	87833
01	01	027	11558	76572	14302	108	808	82	103430
01	01	028	73823	67189	30085	2039	2237	646	176019
01	01	029	86541	82246	33101	17069	17386	7072	243415
PLANNING UNIT 01 SUBTOTAL			967228	1136872	587350	98064	141322	55678	2986514
% DISTRIBUTION OF BLM/OTH AREA			36%	42%	22%	33%	48%	19%	
% DISTRIBUTION OF TOTAL AREA			32%	38%	20%	3%	5%	2%	

P

TOTAL % DISTRIBUTION LOW 36% MED 43% HIGH 22%

V0-7

VO-8

Prog. Area: Watershed-V/C
Prep. By: G. Lipscomb
Date: 22 July 77

OUTPUT DESCRIPTION
Page 1 of 2

OUTPUT TITLE: Water Potential by Planning Unit

OUTPUT FORM: Printout/Data Display

OUTPUT DESCRIPTION: A table summarizing the acreages and acre-feet of potential water yield increases for a planning unit (see attached).

USER(s): Watershed Specialist; Hydrologist; Natural Resource Specialist; etc.

LOCATION(s): SOs; DOs; RAHs; etc.

USAGE: As input to URA

ACCESS LIMITATIONS: None

RESPONSE TIMES: DESIRED: 1 to 3 days REQUIRED: 1 week

FREQUENCY OF PRODUCTION: Monthly for DO specialists/hydrologists to annually for others

DEPENDENCIES: None

REQUEST PARAMETERS: State, Administrative (100-0004) or
State, Geographic (100-0690);
District, Administrative (100-0543);
Planning Unit (100-1075);
Area, Watershed (142-0691)

WS-90

VO-8

OUTPUT DESCRIPTION
Page 2 of 2

OUTPUT TITLE: Water Potential by Planning Unit

SORT ORDER: Identical to sequence of request parameters

ESTIMATED VOLUME: 1 to 3 copies per request with 1 to 5 pages/copy

COMPUTATIONS/PROCESSES: (See copy of ADP Program M065 for Report HREM065)

ACCURACY: NA

SCALE: NA

ANNOTATIONS: NA

LEGEND: NA

REMARKS: This output currently pruduced by the WC & D System (#0008)

WS-91

HREM065

U S DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

ARIZ STRIP (0543) ARIZONA (0004/0690)

WATERSHED CONSERVATION AND DEVELOPMENT SYSTEM

DATE 07-02-76 (7308)

HREM0651 WATER POTENTIAL BY PLANNING UNIT.

PAGE 1

DISTRICT	PLAN UNIT (1075)	WATERSHED AREA (0691)	BLM ACRES (6594)	OTHER ACRES (6597)	POTENTIAL ACRES (0740)	ACRE FEET (0741)	ANNUAL PRECIPATION (0694)
01	01	001	140.749	16,269			10
01	01	002	108.868	5,600			12
01	01	003	146.945	16,855			12
01	01	004	200.509	47,127			9
01	01	005	242.559	8,800			12
01	01	006	81.893	5,940			12
01	01	008	171.094	4,920			14
01	01	009	201.890	41,518			10
01	01	021	140.749	16,269			10
01	01	022	108.868	5,600			12
01	01	023	146,945	16,855			12
01	01	024	200.509	47,127			9
01	01	025	242.559	8,500			12
01	01	026	81,893	5,940			9
01	01	027	102,431	1,000			12
01	01	028	171,094	4,920			14
01	01	029	201.880	41,518			10
PLANNING UNIT 01 TOTALS ARE P			2,691.425	295,058	NO POTENTIAL INDICATED.		
01	02	007	124,878	3,840			10
01	02	053	22.520				11
PLANNING UNIT 02 TOTALS ARE P			147.398	3,840	NO POTENTIAL INDICATED.		
01	03	015	33.300	2,840			11
01	03	016	145.160	13,007			9
01	03	019	116.647	19,483		19,000	15
PLANNING UNIT 03 TOTALS ARE P			295.107	35,330		19,000	
01	06	014		16,804			11
PLANNING UNIT 06 TOTALS ARE P				16,804	NO POTENTIAL INDICATED.		
01	08	010	90.211	5,844			10
01	08	011	78.974	16,385			12
01	08	012	40,927	6,519			10
01	08	013	9,265				10
PLANNING UNIT 08 TOTALS ARE P			219.377	28,748	NO POTENTIAL INDICATED.		
01	72	013	973	856			14
PLANNING UNIT 72 TOTALS ARE P			973	856	NO POTENTIAL INDICATED.		
DISTRICT 01 TOTALS ARE P			3,354,280	380,636	(4749)	19,000 (4750)	

WS-96.1

V0-8

VO-9

Prog. Area: Watershed-V/C
Prep. By: G. Lipscomb
Date: 22 July 77

OUTPUT DESCRIPTION
Page 1 of 2

OUTPUT TITLE: Water Quality Summary by Watershed Area

OUTPUT FORM: Printout/Data Display

OUTPUT DESCRIPTION: A table summarizing water quality problems and probable causes within Watershed areas (see attached).

USER(s): Watershed Specialist; Natural Resource Specialist; Hydrologist, etc.

LOCATION(s): SOs; Dos; RAHs; etc.

USAGE: As input to URA and Watershed activity planning.

ACCESS LIMITATIONS: None.

RESPONSE TIMES: DESIRED: 1 to 3 days REQUIRED: 1 week

FREQUENCY OF PRODUCTION: Monthly for Watershed Specialist/Hydrologist in DO to annually for others.

DEPENDENCIES: None

REQUEST PARAMETERS: State, Administrative (100-0004) or
State, Geographic (100-0690);
District, Administrative (100-0543);
Area, Watershed (142-0691)

WS-92

VO-9

OUTPUT DESCRIPTION
Page 2 of 2

OUTPUT TITLE: Water Quality Summary by Watershed Area

SORT ORDER: Identical to sequence of request parameters

ESTIMATED VOLUME: 1 to 3 copies per request with 1 to 10 pages/copy

COMPUTATIONS/PROCESSES: (See copy of ADP Program M063 for Report BREM063)

ACCURACY: NA

SCALE: NA

ANNOTATIONS: NA

LEGEND: NA

REMARKS: This output currently produced by the WC & D System (#0008)

ARIZ STRIP (0543) ARIZONA (0004/0690)

BLM WATERSHED CONSERVATION AND DEVELOPMENT SYSTEM
PHASE I INVENTORY AND ANALYSIS OF WATERSHED DATA

WATER QUALITY SUMMARY BY WATERSHED AREA

W-5-94

WATERSHED (0691)	WATER QUALITY PROBLEM (0705)	USE AND INTENSITY (0708 through 0713)		PROBABLE CAUSE (0706)	PROBABLE SOURCE (0735)	
AZ 01 001	YES			PUBLIC PURPOSES		
AZ 01 001	YES			NATURAL SITUATION		
AZ 01 001	YES	RECREATION	LOW	MINERAL EXPLORATION		
AZ 01 001	YES	LIVESTOCK	LOW	GULLY EROSION		
AZ 01 001	YES	FISH & WILDLIFE	LOW	FORAGE UTLIZATION PRACTICES		
AZ 01 001	YES	DOMESTIC	LOW	CONSTRUCTION PRACTICES		
AZ 01 002	YES			PUBLIC PURPOSES		
AZ 01 002	YES			NATURAL SITUATION		
AZ 01 002	YES			MINERAL EXPLORATION		
AZ 01 002	YES	RECREATION	LOW	GULLY EROSION		
AZ 01 002	YES	LIVESTOCK	LOW	FORAGE UTLIZATION PRACTICES		
AZ 01 002	YES	FISH & WILDLIFE	LOW	CONSTRUCTION PRACTICES		
AZ 01 003	YES			PUBLIC PURPOSES		
AZ 01 003	YES			NATURAL SITUATION		
AZ 01 003	YES	RECREATION	LOW	GULLY EROSION		
AZ 01 003	YES	LIVESTOCK	LOW	FORAGE UTLIZATION PRACTICES		
AZ 01 003	YES	FISH & WILDLIFE	LOW	CONSTRUCTION PRACTICES		
AZ 01 004	YES			PRIVATE LAND USE		
AZ 01 004	YES			PUBLIC PURPOSES		
AZ 01 004	YES			NATURAL SITUATION		
AZ 01 004	YES			MINERAL EXPLORATION		
AZ 01 004	YES	RECREATION	LOW	GULLY EROSION		
AZ 01 004	YES	LIVESTOCK	LOW	FORAGE UTLIZATION PRACTICES		
AZ 01 004	YES	FISH & WILDLIFE	LOW	CONSTRUCTION PRACTICES		
AZ 01 005	YES			PUBLIC PURPOSES		
AZ 01 005	YES			NATURAL SITUATION		
AZ 01 005	YES	RECREATION	LOW	GULLY EROSION		
AZ 01 005	YES	LIVESTOCK	LOW	FORAGE UTLIZATION PRACTICES		
AZ 01 005	YES	FISH & WILDLIFE	LOW	CONSTRUCTION PRACTICES		
AZ 01 006	YES			NATURAL SITUATION		
AZ 01 006	YES	RECREATION	MED	GULLY EROSION		
AZ 01 006	YES	LIVESTOCK	MED	FORAGE UTLIZATION PRACTICES		
AZ 01 006	YES	FISH & WILDLIFE	MED	CONSTRUCTION PRACTICES		
AZ 01 007	YES			NATURAL SITUATION	AZ 01 008	AZ 01 009
AZ 01 007	YES	LIVESTOCK	LOW	GULLY EROSION	AZ 01 008	AZ 01 009
AZ 01 007	YES	FISH & WILDLIFE	LOW	FORAGE UTLIZATION PRACTICES	AZ 01 008	AZ 01 009
AZ 01 008	YES			NATURAL SITUATION		
AZ 01 008	YES	RECREATION	LOW	MINERAL EXPLORATION		
AZ 01 008	YES	LIVESTOCK	LOW	GULLY EROSION		
AZ 01 008	YES	FISH & WILDLIFE	LOW	FORAGE UTLIZATION PRACTICES		
AZ 01 008	YES	DOMESTIC	LOW	CONSTRUCTION PRACTICES		
AZ 01 009	YES	RECREATION	LOW	NATURAL SITUATION		
AZ 01 009	YES	LIVESTOCK	LOW	GULLY EROSION		

VO-10

Prog. Area: Watershed-V/C
Prep. By: G. Lipscomb
Date: 22 July 77

OUTPUT DESCRIPTION
Page 1 of 2

OUTPUT TITLE: Flood and Sediment Damage Summary by Watershed Area

OUTPUT FORM: Printout/Data Display

OUTPUT DESCRIPTION: A table summarizing present and potential flood and sediment damage.

USER(s): Watershed Specialist; Hydrologist; Natural Resource Specialist; Etc.

LOCATION(s): SOs; DOs; RAHs; etc.

USAGE: As input to URA and Watershed activity planning

ACCESS LIMITATIONS: None

RESPONSE TIMES: DESIRED: 1 to 3 days REQUIRED: 1 week

FREQUENCY OF PRODUCTION: Monthly for DO Watershed specialist/hydrologist to annually for others

DEPENDENCIES: None

REQUEST PARAMETERS: State, Administrative (100-0004) or
State, Geographic (100-0690);
District, Administrative (100-0543);
Area, Watershed (142-0691)

WS-95

OUTPUT DESCRIPTION
Page 2 of 2

OUTPUT TITLE: Flood and Sediment Damage Summary by Watershed Area

SORT ORDER: Identical to sequence of request parameters

ESTIMATED VOLUME: 1 to 3 copies per request with 1 page/copy

COMPUTATIONS/PROCESSES: (See copy of ADP Program M063 for Report CREM063).

ACCURACY: NA

SCALE: NA

ANNOTATIONS: NA

LEGEND: NA

REMARKS: This output currently produced by the WC & D System (#0008).

BLM WATERSHED CONSERVATION AND DEVELOPMENT SYSTEM
PHASE I INVENTORY, ANALYSIS AND PRIORITY RATING

DATE 07-02-76
(7308)

PAGE 1

FLOOD AND SEDIMENT DAMAGE SUMMARY BY WATERSHED AREA

PRESENT FLOOD AND SEDIMENT DAMAGE

WATERSHED ST (0690/0004)	DI (0543)	AREA (0691)	TYPE OF USES IN THE FLOODED AREA (4702)	ORIGIN OF THE FLOODWATER (0732)		OPPORTUNITY FOR REDUCTION (0704)	POTENTIAL WITH FUTURE DEVELOPMENT (0697)
AZ	01	001	AGRICULTURE			YES	YES
AZ	01	001	PUBLIC			YES	YES
AZ	01	002	PUBLIC			YES	YES
AZ	01	003	PUBLIC			YES	YES
AZ	01	004	PUBLIC			YES	YES
AZ	01	005	PUBLIC			YES	YES
AZ	01	006	PUBLIC			YES	YES
AZ	01	007	PUBLIC	AZ 01 008	AZ 01 009	YES	YES
AZ	01	008	PUBLIC			YES	YES
AZ	01	009	PUBLIC			YES	YES
AZ	01	015	AGRICULTURE	AZ 01 016		YES	NO
AZ	01	016	AGRICULTURE			YES	NO
AZ	01	019	AGRICULTURE	AZ 01 016	AZ 01 015	YES	NO
AZ	01	021	AGRICULTURE			YES	YES
AZ	01	021	PUBLIC			YES	YES
AZ	01	022	PUBLIC			YES	YES
AZ	01	023	PUBLIC			YES	YES
AZ	01	024	PUBLIC			YES	YES
AZ	01	025	PUBLIC			YES	YES
AZ	01	026	PUBLIC			YES	YES
AZ	01	027	PUBLIC			YES	YES
AZ	01	028	PUBLIC			YES	YES
AZ	01	029	PUBLIC			YES	YES
AZ	01	053	PUBLIC			YES	YES

46-5/77

V0-10

VO-11

Prog. Area: Watershed-V/C
Prep. By: G. Lipscomb
Date: 22 July 77

OUTPUT DESCRIPTION
Page 1 of 2

OUTPUT TITLE: Water Quality Summary by Planning Unit

OUTPUT FORM: Printout/Data Display

OUTPUT DESCRIPTION: A table summarizing water quality problems by intensity and use affected, and probable sources causing the problem. (See attached.)

USER(s): Hydrologist; Watershed Specialist; Natural Resource Specialist; etc.

LOCATION(s): SOs; DOs; RAHs; etc.

USAGE: As input to URA and Watershed activity planning

ACCESS LIMITATIONS: None

RESPONSE TIMES: DESIRED: 1 to 3 days REQUIRED: 1 week

FREQUENCY OF PRODUCTION: Monthly for DO hydrologist/Watershed specialist to annually for others

DEPENDENCIES: None

REQUEST PARAMETERS: State, Administrative (100-0004) or
State, Geographic (100-0690;
District (100-0543);
Planning Unit (100-1075);
Area, Watershed (142-0691)

WS-98

OUTPUT DESCRIPTION
Page 2 of 2

OUTPUT TITLE: Water Quality Summary by Planning Unit

SORT ORDER: Identical to sequence of request parameters

ESTIMATED VOLUME: 1 to 3 copies per request with 1 to 5 pages/copy

COMPUTATIONS/PROCESSES: (See copy of ADP Program M065 for Report GREM065)

ACCURACY: NA

SCALE: NA

ANNOTATIONS: NA

LEGEND: NA

REMARKS: This output currently produced by the WC & D System (#0008)

GREM065

U S DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

ARIZ STRIP (0543) ARIZONA (0690/0004) WATERSHED CONSERVATION AND DEVELOPMENT SYSTEM DATE 07-02-76 (7308)

GREM065: WATER QUALITY SUMMARY BY PLANNING UNIT. PAGE 1

DISTRICT	PLAN UNIT (1075)	WATERSHED AREA (0691)	WATER QUALITY PROBLEMS (0705)	USE AND INTENSITY (0708 thru 0713)		ORIGINS (0735)	PROBABLE SOURCES (0706)
01	01	001	YES	DOMESTIC	LOW	AZ-01-001	CONSTRUCTION PRACTICES
				FISH & WILDLIFE	LOW	00-00-000	FORAGE UTLIZATION PRACTICES
				LIVESTOCK	LOW	00-00-000	GULLY EROSION
				RECREATION	LOW	00-00-000	MINERAL EXPLORATION
						00-00-000	NATURAL SITUATION
						00-00-000	PUBLIC PURPOSES
						00-00-000	
						00-00-000	
01	01	002	YES	FISH & WILDLIFE	LOW	AZ-01-002	CONSTRUCTION PRACTICES
				LIVESTOCK	LOW	00-00-000	FORAGE UTLIZATION PRACTICES
				RECREATION	LOW	00-00-000	GULLY EROSION
						00-00-000	MINERAL EXPLORATION
						00-00-000	NATURAL SITUATION
						00-00-000	PUBLIC PURPOSES
						00-00-000	
						00-00-000	
01	01	003	YES	FISH & WILDLIFE	LOW	AZ-01-003	CONSTRUCTION PRACTICES
				LIVESTOCK	LOW	00-00-000	FORAGE UTLIZATION PRACTICES
				RECREATION	LOW	00-00-000	GULLY EROSION
						00-00-000	NATURAL SITUATION
						00-00-000	PUBLIC PURPOSES
						00-00-000	
						00-00-000	
						00-00-000	
01	01	004	YES	FISH & WILDLIFE	LOW	AZ-01-004	CONSTRUCTION PRACTICES
				LIVESTOCK	LOW	00-00-000	FORAGE UTLIZATION PRACTICES
				RECREATION	LOW	00-00-000	GULLY EROSION
						00-00-000	MINERAL EXPLORATION
						00-00-000	NATURAL SITUATION
						00-00-000	PUBLIC PURPOSES
						00-00-000	PRIVATE LAND USE
						00-00-000	
01	01	005	YES	FISH & WILDLIFE	LOW	AZ-01-005	CONSTRUCTION PRACTICES
				LIVESTOCK	LOW	00-00-000	FORAGE UTLIZATION PRACTICES
				RECREATION	LOW	00-00-000	GULLY EROSION
						00-00-000	NATURAL SITUATION
						00-00-000	PUBLIC PURPOSES
						00-00-000	
						00-00-000	
						00-00-000	
01	01	006	YES	FISH & WILDLIFE	MODERATE	AZ-01-006	CONSTRUCTION PRACTICES
				LIVESTOCK	MODERATE	00-00-000	FORAGE UTLIZATION PRACTICES
				RECREATION	MODERATE	00-00-000	GULLY EROSION
						00-00-000	NATURAL SITUATION
						00-00-000	
						00-00-000	
						00-00-000	
						00-00-000	

001-511

V0-11

VO-12

Prog. Area: Watershed-V/C
Prep. By: G. Lipscomb
Date: 22 July 77

OUTPUT DESCRIPTION
Page 1 of 2

OUTPUT TITLE: Flood-Sediment Damage Summary by Planning Unit

OUTPUT FORM: Printout/Data Display

OUTPUT DESCRIPTION: A table summarization of present and potential flood-sediment damage, type of flood damage, and opportunity for reduction (see attached).

USER(s): Watershed Specialist; Natural Resource Specialist; Hydrologist; etc.

LOCATION(s): SOs; DOs; RAHs; etc.

USAGE: As input to URA and Watershed activity planning

ACCESS LIMITATIONS: None

RESPONSE TIMES: DESIRED: 1 to 3 days REQUIRED: 1 week

FREQUENCY OF PRODUCTION: Monthly for DO hydrologist/Watershed specialist to annually for others

DEPENDENCIES: None

REQUEST PARAMETERS: State, Administrative (100-0004) or
State, Geographic (100-0690);
District, Administrative (100-0543);
Planning Unit (100-1075);
Area, Watershed (142-0691)

WS-101

VO-12

OUTPUT DESCRIPTION
Page 2 of 2

OUTPUT TITLE: Flood-Sediment Damage Summary by Planning Unit

SORT ORDER: Identical to sequence of request parameters

ESTIMATED VOLUME: 1 to 3 copies per request with 1 page/copy

COMPUTATIONS/PROCESSES: (See ADP Program M065 for Report IREM065)

ACCURACY: NA

SCALE: NA

ANNOTATIONS: NA

LEGEND: NA

REMARKS: This output currently produced by the WC & D System (#0008)

State (0004/0690)

U S DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

WATERSHED CONSERVATION AND DEVELOPMENT SYSTEM

IREM065

DATE 07-02-76
(7308)

IREM065: FLOOD-SEDIMENT DAMAGE SUMMARY BY PLANNING UNIT

DISTRICT (0543)	PLAN UNIT (1075)	WATERSHED AREA (0691)	PRESENT FSD (use 4702)	FUTURE FSD (0697)	USE OF THE FLOODED AREA (4702)	OPPORTUNITY FOR REDUCTION (0704)	ORIGINS OF THE FLOOD AND SEDIMENT DAMAGE (0732)			
01	01	001	P YES	YES	ARGICULTURE PUBLIC	YES	A7-01-001			
01	01	002	YES	YES	PUBLIC	YES	A7-01-002			
01	01	003	YES	YES	PUBLIC	YES	AZ-01-003			
01	01	004	YES	YES	PUBLIC	YES	A7-01-004			
01	01	005	YES	YES	PUBLIC	YES	A7-01-005			
01	01	006	YES	YES	PUBLIC	YES	A7-01-006			
01	01	008	YES	YES	PUBLIC	YES	A7-01-008			
01	01	009	YES	YES	PUBLIC	YES	A7-01-009			
01	01	021	YES	YES	ARGICULTURE PUBLIC	YES	AZ-01-021			
01	01	022	YES	YES	PUBLIC	YES	A7-01-022			
01	01	023	YES	YES	PUBLIC	YES	A7-01-023			
01	01	024	YES	YES	PUBLIC	YES	AZ-01-024			
01	01	025	YES	YES	PUBLIC	YES	A7-01-025			
01	01	026	YES	YES	PUBLIC	YES	AZ-01-026			
01	01	027	YES	YES	PUBLIC	YES	A7-01-027			
01	01	028	YES	YES	PUBLIC	YES	A7-01-028			
01	01	029	YES	YES	PUBLIC	YES	A7-01-029			
01	02	007	YES	YES	PUBLIC	YES	A7-01-007	AZ-01-008	AZ-01-009	
01	02	053	YES	YES	PUBLIC	YES	A7-01-053	- -000	- -000	- -000
							- -000	- -000	- -000	- -000
01	03	015	YES	NO	ARGICULTURE	YES	A7-01-015	- -000	- -000	- -000
							- -000	- -000	- -000	- -000
01	03	016	YES	NO	ARGICULTURE	YES	A7-01-016	- -000	- -000	- -000
							- -000	- -000	- -000	- -000
01	03	019	YES	NO	ARGICULTURE	YES	A7-01-019	- -000	- -000	- -000
							- -000	- -000	- -000	- -000

VO-13

Prog. Area: Watershed-V/C
Prep. By: G. Lipscomb
Date: 22 July 77

OUTPUT DESCRIPTION
Page 1 of 2

OUTPUT TITLE: Summary of Land Jurisdiction and Opportunities by Planning Unit

OUTPUT FORM: Printout/Data Display

OUTPUT DESCRIPTION: A table summarizing acreage of BLM and other land jurisdiction together with acres by type of opportunities (see attached).

USER(s): Watershed Specialist; Natural Resource Specialist; etc.

LOCATION(s): SOs; DOs; RAHs; etc.

USAGE: As input to URA and Watershed activity planning

ACCESS LIMITATIONS: None

RESPONSE TIMES: DESIRED: 1 to 3 days REQUIRED: 1 week

FREQUENCY OF PRODUCTION: Monthly for DO specialists to annually for others.

DEPENDENCIES: None

REQUEST PARAMETERS: State, Administrative (100-0004) or
State, Geographic (100-0690);
District, Administrative (100-0543);
Planning Unit (100-1075);
Area, Watershed (142-0691)

WS-104

OUTPUT DESCRIPTION
Page 2 of 2

OUTPUT TITLE: Summary of Land Jurisdiction and Opportunities by Planning Unit

SORT ORDER: Identical to sequence of request parameters

ESTIMATED VOLUME: 1 to 3 copies per request with 1 to 10 pages/copy

COMPUTATIONS/PROCESSES: (See copy of ADP Program M065 for Report EREM065).

ACCURACY: NA

SCALE: NA

ANNOTATIONS: NA

LEGEND: NA

REMARKS: Similar output currently produced by the WC & D System (#0008).

US DEPARTMENT OF THE INTERIOR, BUREAU OF LAND MANAGEMENT
WATERSHED CONSERVATION AND DEVELOPMENT SYSTEM

EREM065

ARIZ STRIP (0543) ARIZONA (0004/0690)

EREM065: SUMMARY OF LAND JURISDICTION AND OPPORTUNITIES BY PLANNING UNIT

DATE 07-02-76 (7308)

PAGE 1

DISTRICT (0543)	PLAN UNIT (1075)	WATERSHED AREA (0691)	Land Jurisdiction BLM ACRES (6594)	OTHER ACRES (6597)	TOTAL ACRES P	Opportunities NONE ACRES (4780)	MGMT. ACRES (4781)	CHEM. ACRES (4782)	MECH. ACRES (4783)	TILLAGE ACRES (4784)	WATER O. ACRES (4785)
01	01	001	140,749	16,269	157,018						
01	01	002	108,868	5,600	114,468						
01	01	003	146,945	16,855	163,800						
01	01	004	200,509	47,127	247,636						
01	01	005	242,559	8,800	251,359						
01	01	006	81,893	5,940	87,833						
01	01	008	171,094	4,920	176,014						
01	01	009	201,880	41,518	243,398						
01	01	021	140,749	16,269	157,018						
01	01	022	108,868	5,600	114,468						
01	01	023	146,945	16,855	163,800						
01	01	024	200,509	47,127	247,635						
01	01	025	242,559	8,800	251,359						
01	01	026	81,893	5,940	87,833						
01	01	027	102,431	1,000	103,431						
01	01	028	171,094	4,920	176,014						
01	01	029	201,880	41,518	243,398						
P PLANNING UNIT 01 TOTALS ARE			2,691,425	295,058	2,986,483						
01	02	007	124,878	3,840	128,718						
01	02	033	22,520		22,520						
P PLANNING UNIT 02 TOTALS ARE			147,398	3,840	151,238						
01	03	015	33,300	2,840	36,140						
01	03	016	145,160	13,007	158,167						
01	03	019	116,647	19,483	136,130						
P PLANNING UNIT 03 TOTALS ARE			295,107	35,330	330,437						
01	06	014		16,804	16,804						
P PLANNING UNIT 06 TOTALS ARE				16,804	16,804						
01	08	010	90,211	5,844	96,055						
01	08	011	78,974	16,385	95,359						
01	08	012	40,927	6,519	47,446						
01	08	013	9,265		9,265						
P PLANNING UNIT 08 TOTALS ARE			219,377	28,748	248,125						
01	72	013	973	856	1,829						
P PLANNING UNIT 72 TOTALS ARE			973	856	1,829						
P DISTRICT 01 TOTALS ARE			3,354,280	380,636	3,734,916						

(May also include DEs 4788, 4789, 4791, 4792, and 4793)

4/27-5/77

VO-14

Prog. Area: Watershed-V/C
Prep. By: G. Lipscomb
Date: 22 July 77

OUTPUT DESCRIPTION
Page 1 of 2

OUTPUT TITLE: Vegetation Types by Planning Unit

OUTPUT FORM: Printout/Data Display

OUTPUT DESCRIPTION: A table summarizing vegetation type/subtype data for a planning unit (see attached).

USER(s): Watershed Specialist; Range Specialist; etc.

LOCATION(s): SOs; DOs; RAHs; etc.

USAGE: As input to URA (Step 2).

ACCESS LIMITATIONS: None

RESPONSE TIMES: DESIRED: 1 to 3 days REQUIRED: 1 week

FREQUENCY OF PRODUCTION: Monthly for DO specialists to annually for others

DEPENDENCIES: None

REQUEST PARAMETERS: State, Administrative (100-0004) or
State, Geographic (100-0690);
District, Administrative (100-0543);
Planning Unit (100-1075);
Vegetation Type (132-2652);
Vegetation Sub-Type (132-2706)

WS-107

OUTPUT DESCRIPTION
Page 2 of 2

OUTPUT TITLE: Vegetation Types by Planning Unit

SORT ORDER: Identical to sequence of request parameters

ESTIMATED VOLUME: 1 to 3 copies per request with 1 page/copy

COMPUTATIONS/PROCESSES: None

ACCURACY: NA

SCALE: NA

ANNOTATIONS: NA

LEGEND: NA

REMARKS: None

State (0004/0690)
District (0543)

VEGETATION TYPES BY PLANNING UNIT

P.U. Paradise (1075)

Type (2652)	SUB-TYPE Code (2706)	SUB-TYPE Name (2706)	Acres (6520)	Vegetation Cover 1/ (3824)	Major Species 1/ (3705)	(2628) Percent Comp. 1/	Poisonous and Noxious Weeds Acres (4819)	Poisonous and Noxious Weeds Species (2623/3720)
Grass	012	Mid-Grass (Bunch)	80,000	30%	Agsp BRTE Slhy Other	20 10 60 10		
	014	Tall Grass	10,000	25%	ELC1 BRTE Slhy Other	30 20 20 30		
Perennial Forbs	031	Perennial Forbs	2,000	50%	-CHA1 -BRTE	30 20	1,500 Scattered	AST HAgl
Sage Brush	041	Big Sage Brush	60,000	45%	ARTR BRTE Slhy Other	60 10 20 10		
Pinion-Juniper	093	Pinion-Juniper	90,000	35%	JUOC BRTE FELJ Other	60 20 10 10		
Total P	-	-	242,000	-	-	-	1,500	

1/ Data from Range Survey Write up sheets.
Estimate if no Range Survey Data available.

W5-1019

VO-15

Prog. Area: Watershed-V/C
Prep. By: G. Lipscomb
Date: 22 July 77

OUTPUT DESCRIPTION
Page 1 of 2

OUTPUT TITLE: Vegetal-Soil Factor Overlay

OUTPUT FORM: Map/Graphic Display

OUTPUT DESCRIPTION: A graphic display of vegetal-soil factor rating class boundaries for a planning unit. (See attached)

USER(s): Watershed Specialist; Natural Resource Specialist; Planners; etc.

LOCATION(s): SOs; DOs; RAHs; etc.

USAGE: As input to Step 2 URA

ACCESS LIMITATIONS: None

RESPONSE TIMES: DESIRED: 1 to 3 days REQUIRED: 1 week

FREQUENCY OF PRODUCTION: Monthly for specialists/planners at DO, to annually for others

DEPENDENCIES: None

REQUEST PARAMETERS: State, Administrative (100-0004) or
State, Geographic (100-0690);
District, Administrative (100-0543);
Planning Unit (100-1075);
or a set of coordinates (e.g., Latitude (100-1236) and Longitude (100-1237))

WS-110

OUTPUT DESCRIPTION
Page 2 of 2

OUTPUT TITLE: Vegetal-Soil Factor Overlay

SORT ORDER: Identical to sequence of request parameters

ESTIMATED VOLUME: 1 to 3 copies per request with 1 page/copy

COMPUTATIONS/PROCESSES: None

ACCURACY: Within 5%

SCALE: Variable (filed at 1:24,000, 1:62,500, or 1:125,000)

ANNOTATIONS: (See attached output sample)

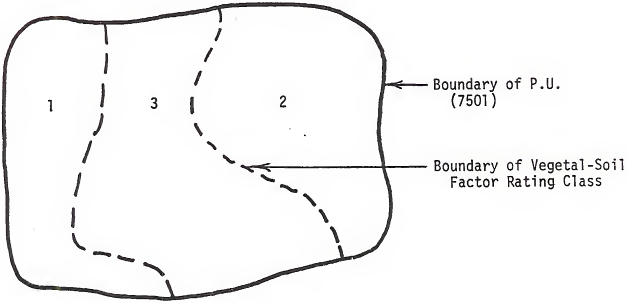
LEGEND: Standard map symbols for identifying mapping units by class (low, medium, high) of vegetal-soil factor rating (shown on attached sample output).

REMARKS: None

VEGETAL-SOIL FACTOR OVERLAY

State (0004) (0690)
District (0543)
P.U. (1075)

Date: (7308)



LEGEND:

1 Area with Low Vegetal-Soil Factor Rating

2 Area with Medium Vegetal-Soil Factor Rating

3 Area with High Vegetal-Soil Factor Rating

WS-112

VO-16

Prog. Area: Watershed-V/C
Prep. By: G. Lipscomb
Date: 22 July 77

OUTPUT DESCRIPTION
Page 1 of 2

OUTPUT TITLE: Land Treatments and Management Facilities Overlay

OUTPUT FORM: Map/Graphic Display

OUTPUT DESCRIPTION: A graphic display of land treatment and management facilities located within a planning unit (see attached).

USER(s): Watershed Specialist; Natural Resource Specialist; Planners, etc.

LOCATION(s): SOs; DOs; RAHs; etc.

USAGE: As input to Step 2 URA

ACCESS LIMITATIONS: None

RESPONSE TIMES: DESIRED: 1 to 3 days REQUIRED: 1 week

FREQUENCY OF PRODUCTION: Monthly for DO specialists/planners to annually for others

DEPENDENCIES: None

REQUEST PARAMETERS: State, Administrative (100-0004) or
State, Geographic (100-0690);
District, Administrative (100-0543);
Planning Unit (100-1075);
or a set of coordinates (e.g., latitude (100-1236) and longitude (100-1237))

WS-113

OUTPUT DESCRIPTION
Page 2 of 2

OUTPUT TITLE: Land Treatments and Management Facilities Overlay

SORT ORDER: Identical to sequences of request parameters

ESTIMATED VOLUME: 1 to 3 copies per request with 1 page/copy

COMPUTATIONS/PROCESSES: None

ACCURACY: Within 5%

SCALE: Variable (filed at 1:24,000, 1:62,500, or 1:125,000)

ANNOTATIONS: (See attached sample of output)

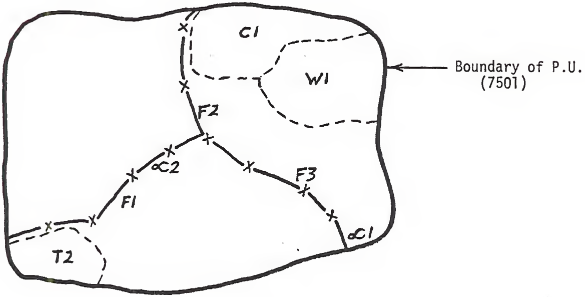
LEGEND: Standard map symbols for identifying the location of land treatments and management facilities (see legend on sample attached).

REMARKS: None

LAND TREATMENTS AND MANAGEMENT FACILITIES OVERLAY

State (0004) (0690)
District (0543)
P.U. (1075)

Date: (7308)



Boundary of P.U.
(7501)

LEGEND:

F1	Allotment A Boundary Fence
F2	Allotment B Boundary Fence
F3	Allotment C Boundary Fence
C1	Chemical sagebrush manipulation
T2	Mechanical P-J manipulation by chaining
W1	Contour furrowing in burned sagebrush
αC1	Comparison area for big sagebrush site
αC2	Comparison area for P-J site

WS-114

VO-17

Prog. Area: Watershed-V/C
Prep. By: G. Lipscomb
Date: 22 July 77

OUTPUT DESCRIPTION
Page 1 of 2

OUTPUT TITLE: Land Treatments and Management Facilities Tabulation

OUTPUT FORM: Printout/Data Display

OUTPUT DESCRIPTION: A table summarizing land tretament and management facility data within a planning unit (see attached).

USER(s): Watershed Specialist; Natural Resource Specialist; Planners; etc.

LOCATION(s): SOs; DOs; RAHs; etc.

USAGE: As input to Step 2 URA

ACCESS LIMITATIONS: None

RESPONSE TIMES: DESIRED: 1 to 3 days REQUIRED: 1 week

FREQUENCY OF PRODUCTION: Monthly for DO specialist/planner to annually for others

DEPENDENCIES: None

REQUEST PARAMETERS: State, Administrative (100-0004) or
State, Geographic (100-0690);
District, Administrative (100-0543);
Planning Unit (100-1075);
Type of Project (145-5463);
Number, Project or Overlay (145-5464)

WS-115

OUTPUT DESCRIPTION
Page 2 of 2

OUTPUT TITLE: Land Treatments and Management Facilities Tabulation

SORT ORDER: Identical to sequence of request parameters

ESTIMATED VOLUME: 1 to 3 copies per request with 1 page/copy

COMPUTATIONS/PROCESSES: None

ACCURACY: NA

SCALE: NA

ANNOTATIONS: NA

LEGEND: NA

REMARKS: None

VO-17

(URA2)

LAND TREATMENTS AND MANAGEMENT FACILITIES TABULATION

State (0004/0690)
District (0543)
P.U. No Name (1075)

Date: 2-10-67 (7308)

(5463)	(5464)	(5465)	(5466)	(5468)	(5467)
Type of Project	Number	Direct Benefiting Activity	Objective of Project	Unit of Measurement	Number of units
Fence	F1	Range	Livestock Control	Mile	2.0
Fence	F2	Range	Livestock Control	Mile	1.2
Fence	F3	Range	Livestock Control	Mile	1.9
Sagebrush Spraying	C1	Range	Forage Increase	Acre	400
P-J Chaining	T-2	Watershed	Control of Runoff	Acre	160
Contour Plowing	A1	Watershed	Control of Runoff	Acre	410
Big Sagebrush Comparison Area	∝1	Watershed	Productive Capacity	Number	1
P-J Comparison Area	∝2	Watershed	Productive Capacity	Number	1

WS-117

VO-18

Prog. Area: Watershed-V/C
Prep. By: G. Lipscomb
Date: 22 July 77

OUTPUT DESCRIPTION
Page 1 of 2

OUTPUT TITLE: Erosion Condition and Trend Overlay

OUTPUT FORM: Map/Graphic Display

OUTPUT DESCRIPTION: A graphic display of mapping units showing areas by present erosion condition class plus apparent trend in erosion. (See attached.)

USER(s): Watershed Specialist; Natural Resource Specialist; etc.

LOCATION(s): SOs; DOs; RAHs; etc.

USAGE: As input to Step 3 URA

ACCESS LIMITATIONS: None

RESPONSE TIMES: DESIRED: 1 to 3 days REQUIRED: 1 week

FREQUENCY OF PRODUCTION: Monthly for DO specialist to annually for others

DEPENDENCIES: None

REQUEST PARAMETERS: State, Administrative (100-0004) or
State, Geographic (100-0690);
District, Administrative (100-0543);
Planning Unit (100-1075)
or a set of coordinates (e.g., Latitude (100-1236) and Longitude (100-1237)).

WS-118

OUTPUT DESCRIPTION
Page 2 of 2

OUTPUT TITLE: Erosion Condition and Trend Overlay

SORT ORDER: Identical to sequence of request parameters

ESTIMATED VOLUME: 1 to 3 copies per request with 1 page/copy

COMPUTATIONS/PROCESSES: None

ACCURACY: Within 5%

SCALE: Variable (filed at 1:24,000, 1:62,500 or 1:125,000)

ANNOTATIONS: (See attached output sample)

LEGEND: Standard map symbols for identifying the mapping units for present erosion condition classes and apparent trend in erosion for each mapping unit (see legend on attached sample).

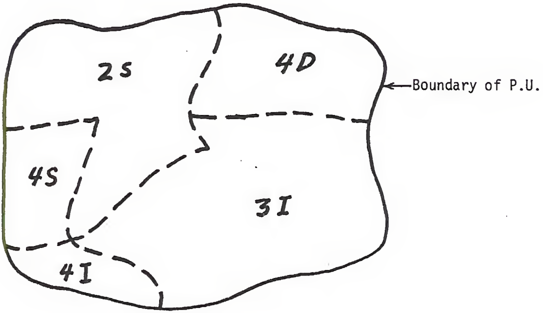
REMARKS: None

WS-119

EROSION CONDITION AND TREND OVERLAY

State (0004/0690)
District (0543)
P.U. (1075)

Date: (7308)



LEGEND:

2S - Slight Erosion Condition; Static Trend

3I - Moderate Erosion Condition; Improving Trend

4S - Critical Erosion Condition; Static Trend

4D - Critical Erosion Condition; Deteriorating Trend

4I - Critical Erosion Condition; Improving Trend

WS-120

VO- 19

Prog. Area: Watershed-V/C
Prep. By: ~~G. Lipscomb~~
Date: ~~22 July 77~~

OUTPUT DESCRIPTION
Page 1 of 2

OUTPUT TITLE: Erosion Condition and Trend Table

OUTPUT FORM: Printout/Data Display

OUTPUT DESCRIPTION: A table summarizing the acreage in present and future erosion condition classes

USER(s): Watershed Specialist; Natural Resource Specialist; etc.

LOCATION(s): SOs; DOs; RAHs; etc.

USAGE: As input to Step 3 URA.

ACCESS LIMITATIONS: None

RESPONSE TIMES: DESIRED: 1 to 3 days REQUIRED: 1 week

FREQUENCY OF PRODUCTION: Monthly for DO specialist to annually for others

DEPENDENCIES: None

REQUEST PARAMETERS: State, Administrative (100-0004) or
State, Geographic (100-0690);
District, Administrative (100-0543);
Planning Unit (100-1075);
Area, Watershed (142-0691)

WS-121

OUTPUT DESCRIPTION
Page 2 of 2

OUTPUT TITLE: Erosion Condition and Trend Table

SORT ORDER: Identical to sequence of request parameters

ESTIMATED VOLUME: 1 to 3 copies per request with 1 page/copy

COMPUTATIONS/PROCESSES: None

ACCURACY: NA

SCALE: NA

ANNOTATIONS: NA

LEGEND: NA

REMARKS: None

State (0004/0690)
District (0543)
P.U. (1075)

EROSION CONDITION AND TREND TABLE

WATERSHED AREA (0004)(0543)(0691) (0693)	BARREN (4794)	STABLE (4720)	SLIGHT (4721)	MODERATE (4722)	CRITICAL (4723)	SEVERE (4724)	SUBTOTAL P	UNCLASSIFIED TOTAL (4800)
27 04 002 Indian Creek	-	-	-	765	235	-	1000	
27 04 003 Mad Creek	700	-	1530	4770	-	-	7000	
27 04 004 Beaver Creek	-	1390	5580	6980	-	-	13950	
PLANNING UNIT 16(1075)	700	1390	7110	12515	235	-	21950	
% DISTRIBUTION P	3.2	6.3	32.4	57.0	1.1	-	100.0	

FUTURE (FO) EROSION CONDITION ON BLM ACRES

		(4795)	(4796)	(4797)	(4798)	(4799)	P
27 04 002 Indian Creek	-	-	-	765	235		1000
27 04 003 Mad Creek	700	-	-	6300	-	-	7000
27 04 004 Beaver Creek	-	1390	-	12560	-	-	13950
PLANNING UNIT 16(1075)	700	1390	-	19625	235	-	21950
% DISTRIBUTION P	3.2	6.3	-	89.4	1.1	-	100.0

TREND IN EROSION CONDITION ON BLM ACRES (PR-FO)

(4801)

PLANNING UNIT 16(1075)	-	-	-7110	+7110	-	-	-

TREND CLASS A SSF > 10

	IMPROVING (4802)	STATIC (4803)	DETERIORATING (4804)
PLANNING UNIT 16(1075)	-	21420	530
% DISTRIBUTION P	-	97.5	2.5

WS-123

(URA 3)

V0-19

VO-20

Prog. Area: Watershed-V/C
Prep. By: G. Lipscomb
Date: 22 July 77

OUTPUT DESCRIPTION
Page 1 of 2

OUTPUT TITLE: Watershed Opportunities Overlay

OUTPUT FORM: Map/Graphic Display

OUTPUT DESCRIPTION: A graphic display of the boundaries of watershed opportunity areas, by type of opportunity (see attached).

USER(s): Watershed Specialist; Natural Resource Specialist; etc.

LOCATION(s): SOs; DOs; RAHs; etc.

USAGE: As input to Step 4 URA

ACCESS LIMITATIONS: None

RESPONSE TIMES: DESIRED: 1 to 3 days REQUIRED: 1 week

FREQUENCY OF PRODUCTION: Montly for DO specialist to annually for others

DEPENDENCIES: None

REQUEST PARAMETERS: State, Administrative (100-0004) or
State, Geographic (100-0690);
District, Administrative (100-0543);
Planning Unit (100-1075);
or a set of coordinates (e.g., Latitude (100-1236) and Longitude (100-1237)).

WS-124

VO-20

OUTPUT DESCRIPTION
Page 2 of 2

OUTPUT TITLE: Watershed Opportunities Overlay

SORT ORDER: Identical to sequence of request parameters.

ESTIMATED VOLUME: 1 to 3 copies per request with 1 page/copy

COMPUTATIONS/PROCESSES: None

ACCURACY: Within 5%

SCALE: Variable (filed at 1:24,000, 1:62,500, or 1:125,000)

ANNOTATIONS: (See attached output sample)

LEGEND: Standard map symbols for identifying types of Watershed opportunity areas (see legend on attached sample)

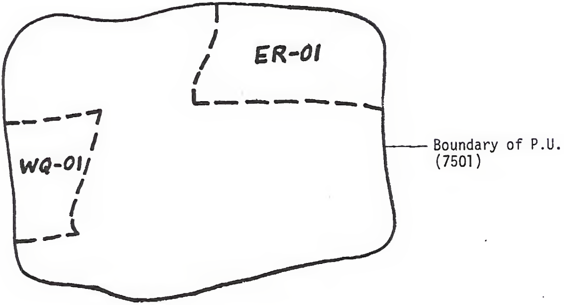
REMARKS: None

WS-125

WATERSHED OPPORTUNITIES OVERLAY

State (0004/0690)
District (0543)
P.U. (1075)

Date: (7308)



LEGEND

ER-01 - Opportunity for Erosion Reduction (and Water Quality Enhancement)

WQ-01 - Opportunity for Water Quality Enhancement (and Erosion Reduction)

WS-126

VO-21

Prog. Area: Watershed-V/C
Prep. By: G. Lipscomb
Date: 25 July 77

OUTPUT DESCRIPTION
Page 1 of 2

OUTPUT TITLE: Table of Management and Treatment Opportunity Areas

OUTPUT FORM: Printout/Data Display

OUTPUT DESCRIPTION: A table summarizing data for watershed opportunity areas by planning unit.

USER(s): Watershed Specialist; Natural Resource Specialist, etc.

LOCATION(s): SOs; DOs; RAHs; etc.

USAGE: As input to Step 4 URA

ACCESS LIMITATIONS: None

RESPONSE TIMES: DESIRED: 1 to 3 days REQUIRED: 1 week

FREQUENCY OF PRODUCTION: Monthly for DO specialists to annually for others

DEPENDENCIES: None

REQUEST PARAMETERS: State, Administrative (100-0004) or
State, Geographic (100-0690);
District, Administrative (100-0543);
Planning Unit (100-1075);
Watershed Opportunity Area (142-4806).

WS-127

VO-21

OUTPUT DESCRIPTION
Page 2 of 2

OUTPUT TITLE: Table of Management and Treatment Opportunity Areas

SORT ORDER: Identical to sequence of request parameters

ESTIMATED VOLUME: 1 to 3 copies per request with 1 page/copy

COMPUTATIONS/PROCESSES: None

ACCURACY: NA

SCALE: NA

ANNOTATIONS: NA

LEGEND: NA

REMARKS: None

WS-128

TABLE OF MANAGEMENT AND TREATMENT OPPORTUNITY AREAS

State (0004/0690)
District (0543)
P.U. (1075)

Date: (7308)

(4806)	(6594)	(0760)	(4808) (4809)	(4810) (4809)	(4811) (4809)	(4812) (4809)	(4813) (4809)
			Opportunity Size and Potential 1/				
Opportunity Area Code	BLM Acres	Type of Practices	EP (Acres)	ER (Acres)	WQ (Acres)	WY (ac. ft)	F/S ($)
ER-01	1,000	C, T		400 G	400 F		
WQ-01	800	A, W		200 F	200 E		

1/ Entries include number of units plus a code for opportunity potential (i.e., E = excellent; G = good; F = fair; P = poor).

WS-129

VO-22

Prog. Area: Watershed-V/C
Prep. By: G. Lipscomb
Date: 24 Aug. 77

OUTPUT DESCRIPTION
Page 1 of 2

OUTPUT TITLE: Vegetation Narrative

OUTPUT FORM: Narrative

OUTPUT DESCRIPTION: A URA Step 2 narrative describing the types of vegetation and its characteristics within a planning area (See Attached).

USER(s): Planners; Watershed Specialists; Range Specialists; etc.

LOCATION(s): SOs; DOs; RAHs; etc.

USAGE: As input to Step 2 of URA

ACCESS LIMITATIONS: None

RESPONSE TIMES: DESIRED: 2 or 3 days REQUIRED: 1 week

FREQUENCY OF PRODUCTION: Monthly for Specialists at RAH and DO to annually for those at SO.

DEPENDENCIES: None

REQUEST PARAMETERS: State, Administrative (100-0004) or State, Geographic (100-0690); District, Administrative (100-0543); Planning Unit (100-1075)

WS-130

VO-22

OUTPUT DESCRIPTION
Page 2 of 2

OUTPUT TITLE: Vegetation Narrative

SORT ORDER: Identical to request parameters

ESTIMATED VOLUME: 3 to 5 copies per request

COMPUTATIONS/PROCESSES:

NA

ACCURACY: NA

SCALE: NA

ANNOTATIONS: NA

LEGEND: NA

REMARKS: None

WS-131

Vegetation Narrative

State: {0004} {0690}
District: {0543}
Planning Unit: {1075}

Date: {8518}

Vegetative types are influenced by . . . .
(4786)

Poisonous plants include . . . .
(4786)

Rare plant species include . . . .
(4786)

WS-132

VO-23

Prog. Area: Watershed-V/C
Prep. By: G. Lipscomb
Date: 24 Aug.77

OUTPUT DESCRIPTION

Page 1 of 2

OUTPUT TITLE: Vegetal-Soil Factor Narrative

OUTPUT FORM: Narrative

OUTPUT DESCRIPTION: A URA Step 2 narrative describing the limiting physical factors by vegetal-soil factor rating class for a planning area (See Attached).

USER(s): Planners; Watershed Specialists; etc.

LOCATION(s): RAHs; DOs; Sos; etc.

USAGE:

As input to Step 2 of URA.

ACCESS LIMITATIONS:

None

RESPONSE TIMES: DESIRED: 2 or 3 days

REQUIRED: 1 week

FREQUENCY OF PRODUCTION:

Monthly for specialists at DO or RAH to annually for those at SO.

DEPENDENCIES:

None

REQUEST PARAMETERS:

State, Administrative (100-0004) or State, Geographic (100-0690); District, Administrative (100-0543); Planning Unit (100-1075).

WS-133

VO-23

OUTPUT DESCRIPTION
Page 2 of 2

OUTPUT TITLE:
Vegetal-Soil Factor Narrative

SORT ORDER:
Identical to request parameters.

ESTIMATED VOLUME:
3 to 5 copies per request

COMPUTATIONS/PROCESSES:
NA

ACCURACY:
NA

SCALE:
NA

ANNOTATIONS:
NA

LEGEND:
NA

REMARKS:
None

WS-134

VEGETAL-SOIL FACTOR NARRATIVE

State: {0004} {0690}
District: {0543}
Planning Unit: {1075}

Date: {8518}

High vegetal-soil factor ratings are found in . . . .
(4787)

Management implications include . . . .
(4787)

Soil moisture is limited on high rated area because . . . .
(4787)

WS-135

VO-24

Prog. Area: Watershed-V/C
Prep. By: G. Lipscomb
Date: 24 Aug. 77

OUTPUT DESCRIPTION
Page 1 of 2

OUTPUT TITLE: Land Treatments and Management Facilities Narrative

OUTPUT FORM:
Narrative

OUTPUT DESCRIPTION: A Step 2 URA Narrative describing existing land treatments and management facilities for a planning area (See Attached)

USER(s): Planners; Watershed Specialists; etc.

LOCATION(s): RAHs; DOs; SOs; etc.

USAGE: As input to Step 2 of URA

ACCESS LIMITATIONS: None

RESPONSE TIMES: DESIRED: 2 to 3 days REQUIRED: 1 week

FREQUENCY OF PRODUCTION: Monthly for specialists at RAH or DO to annually for those at SO.

DEPENDENCIES:

None

REQUEST PARAMETERS: State, Administrative (100-0004) or State, Geographic (100-0690); District, Administrative (100-0543); Planning Unit (100-1075)

WS-136

VO-24

OUTPUT DESCRIPTION
Page 2 of 2

OUTPUT TITLE: Land Treatments and Managements Facilities Narrative

SORT ORDER:
Identical to request parameters

ESTIMATED VOLUME: 3 to 5 copies per request

COMPUTATIONS/PROCESSES:
NA

ACCURACY:
NA

SCALE:
NA

ANNOTATIONS:
NA

LEGEND:
NA

REMARKS:
None

WS-137

LAND TREATMENTS AND MANAGEMENT FACILITIES NARRATIVE

State: {0004} {0690}
District: {0543}
Planning Unit: {1075}

Date: {8518}

Land treatments are largely . . . .

(4814)

Management facilities consist of . . . .

(4814)

WS-138

Prog. Area: Watershed-V/C
Prep. By: G. Lipscomb
Date: 24 Aug. 77

VO-25

OUTPUT DESCRIPTION
Page 1 of 2

OUTPUT TITLE: Erosion Condition and Trend Narrative

OUTPUT FORM: Narrative

OUTPUT DESCRIPTION: A step 3 URA narrative describing erosion condition and trend conditions for a planning area (See Attached)

USER(s): Planners; Watershed Specialists; etc.

LOCATION(s): RAHs; DOs; SOs: etc.

USAGE:

As input to Step 3, Watershed, of URA.

ACCESS LIMITATIONS: None

RESPONSE TIMES: DESIRED: 2 to 3 days REQUIRED: 1 week

FREQUENCY OF PRODUCTION: Monthly for specialists at RAH or DO to annually for those at SO.

DEPENDENCIES:

None

REQUEST PARAMETERS:

State, Administrative (100-0004); State, Geographic (100-0690); District, Administrative (100-0543); Planning Unit (100-1075)

WS-139

VO-25

OUTPUT DESCRIPTION
Page 2 of 2

OUTPUT TITLE:

Erosion Condition and Trend Narrative

SORT ORDER:

Identical to request parameters

ESTIMATED VOLUME: 3 to 5 copies per request

COMPUTATIONS/PROCESSES:

NA

ACCURACY:

NA

SCALE:

NA

ANNOTATIONS:

NA

LEGEND:

NA

REMARKS:

None

WS-140

EROSION CONDITION AND TREND NARRATIVE

State: {0004} {0690} Date: {8518}
District: {0543}
Planning Unit: {1075}

Erosion problems are caused by . . . .

(4805)

Effects on water quality and flood and sediment damages include . . . .

(4805)

VO-26

Prog. Area: Watershed-V/C
Prep. By: G. Lipscomb
Date: 24 Aug. 77

OUTPUT DESCRIPTION
Page 1 of 2

OUTPUT TITLE: Watershed Opportunities Narrative

OUTPUT FORM:
Narrative

OUTPUT DESCRIPTION:
A Step 4 URA narrative describing the types of watershed opportunities for a planning area (See Attached).

USER(s):
Watershed Specialists; etc.

LOCATION(s):
RAH; DOs; SOs; etc.

USAGE:
As input to Step 4, Watershed, of URA.

ACCESS LIMITATIONS:
None

RESPONSE TIMES: DESIRED:
2 to 3 days

REQUIRED:
1 week

FREQUENCY OF PRODUCTION:
Monthly for specialist at RAH or DO to annually for those at SO.

DEPENDENCIES:
None

REQUEST PARAMETERS:
State, Administrative (100-0004) or State, Geographic (100-0690); District, Administrative (100-0543); Planning Unit (100-1075)

115-142

VO-26

OUTPUT TITLE:
Watershed Opportunities Narrative

SORT ORDER: Identical to request parameters

ESTIMATED VOLUME: 3 to 5 copies per request

COMPUTATIONS/PROCESSES:
NA

ACCURACY:
NA

SCALE:
NA

ANNOTATIONS:
NA

LEGEND:
NA

REMARKS:

None

WATERSHED OPPORTUNITIES NARRATIVE

State: {0004} {0690}　　　Date: {8518}
District: {0543}
Planning Unit: {1075}

Opportunities in Area ER-01 include . . . .
(4815)

Area WQ-01 includes opportunities for . . . .
(4815)

WS-144

AO-1

Prog. Area: Watershed-Air
Prep. By: G. Lipscomb
Date: 25 July 77

OUTPUT DESCRIPTION
Page 1 of 2

OUTPUT TITLE: Air Resources Inventory Map

OUTPUT FORM: Map/Graphic Display

OUTPUT DESCRIPTION: A graphic display of the location of Air Resources data such as monitoring sites, climatological station sites, air basins boundaries, etc. (See Attached)

USER(s): Natural Resource Specialist; Planners; Air Resources Specialists; etc.

LOCATION(s): SO's, DO's, RAH's, etc.

USAGE:
As input to URA, EAR's, ES's, activity planning, etc.

ACCESS LIMITATIONS: None

RESPONSE TIMES: DESIRED: 1 to 3 days REQUIRED: 1 week

FREQUENCY OF PRODUCTION: Monthly for DO specialists/planners to annually for others

DEPENDENCIES:
None

REQUEST PARAMETERS: State, Administrative (100-0004) or State, Geographic (100-0690); District, Administrative (100-0543); Planning Unit (100-1075)

WS-145

AO-1

OUTPUT DESCRIPTION
Page 2 of 2

OUTPUT TITLE: Air Resources Inventory Map

SORT ORDER: Identical to sequence of request parameters.

ESTIMATED VOLUME: 1 to 3 copies per request with 1 page/copy.

COMPUTATIONS/PROCESSES:

None

ACCURACY: Within 5%

SCALE: Variable (filed at 1:24,000 or 1:62,500)

ANNOTATIONS: (See attached sample output)

LEGEND:

Standard map symbols to key air resources information displayed on overlay (see legend on attached sample).

REMARKS:

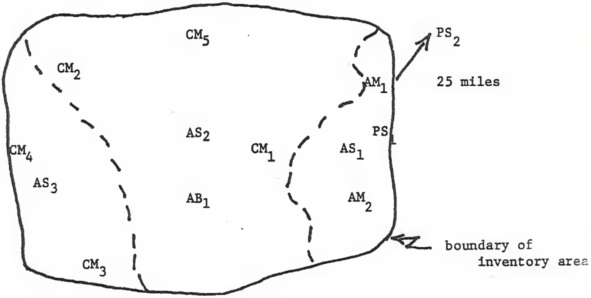
None

115-146

AIR RESOURCE INVENTORY MAP

State: (0004) (0690)
District: (0543)
Planning Unit: (1075)

Date: (7308)



Legend (air resource inventory)

AM_1	Air Quality Monitoring Site No. 001
AM_2	Air Quality Monitoring Site No. 002
CM_1	Climatological Station Site No. 0001
CM_2	Climatological Station Site No. 0002
CM_3	Climatological Station Site No. 0003
CM_4	Climatological Station Site No. 0004
CM_5	Climatological Station Site No. 0005
PS_1	Point emission source (Sawmill burner)

Legend (Air Basin/Airshed)

(4978)	AS_1	Sawmill Airshed, No. 1
	AS_2	Middle Airshed, No.2
	AS_3	Clean Airshed, No. 3
	AB_1	Colorado Air Basin No. 1 (4959)
	PS_2	Point Emission Source (Coal-Fired power plant)

11S-147

AO-2

Prog. Area: Watershed-Air
Prep. By: G.Lipscomb
Date: 25 July 77

OUTPUT DESCRIPTION
Page 1 of 2

OUTPUT TITLE: Index of Air Quality Monitoring Sites

OUTPUT FORM: Printout/Data Display

OUTPUT DESCRIPTION: A table summarizing site data for air quality monitoring stations.

USER(s): Natural Resources Specialist; Planners; Air QUality Specialist; etc.

LOCATION(s): SO's; DO's; RAH's; etc.

USAGE: As input to URA and other planning activities.

ACCESS LIMITATIONS: None

RESPONSE TIMES: DESIRED: 1 to 3 days REQUIRED: 1 week

FREQUENCY OF PRODUCTION: Monthly for DO specialists to annually for others.

DEPENDENCIES: None

REQUEST PARAMETERS: State, Administrative (100-0004) or State, Geographic (100-0690); District, Administrative (100-0543); Planning Unit (100-1075); Site Code Number (143-4910).

WS-148

AO-2

OUTPUT DESCRIPTION
Page 2 of 2

OUTPUT TITLE: Index of Air Quality Monitoring Sites

SORT ORDER: Identical sequence of request parameters plus Project Classification (143-4902); County, etc., (100-0546); Name, Air Basin (143-4959).

ESTIMATED VOLUME:

1 to 3 copies per request with 1 to 3 pages/copy

COMPUTATIONS/PROCESSES:

None

ACCURACY: NA

SCALE: NA

ANNOTATIONS: NA

LEGEND: NA

REMARKS:

None

WS-149

INDEX OF AIR QUALITY MONITORING SITES

415-157

State (0004) (0690)
Date (7308)

Site NO.	Proj Code	Dist.	County	P.U.	Air Basin	Water-shed	Latit.	Long.	UTM (7515)			Agency Type	Support Agency	Elevation of Sampler		comments on sampler site
									ZONE	NORTH	EAST			above ground	above msl	
(4910)	4902	(0543)	(0546)	(1075)	4959	(5304)	(1236)	(1237)				(4905)	(4906)	(4908)	(0431)	(6954)

Prog. Area: Watershed-Air
Prep. By: G. Lipscomb
Date: 25 July 77

AO-3

OUTPUT DESCRIPTION
Page 1 of 2

OUTPUT TITLE: 24 - Hour Raw Data Listing for Air Quality Stations

OUTPUT FORM: Printout/Data Display

OUTPUT DESCRIPTION: A table displaying raw data for an air pollution parameter for a single station. (See attached sample).

USER(s): Air Resource Specialist; Natural Resource Specialist; Planners; Environmental Specialist; etc.

LOCATION(s): SO's; DO's; RAH's; etc.

USAGE: As input to URA, EAR's, ES's, and activity planning.

ACCESS LIMITATIONS: None

RESPONSE TIMES: DESIRED: 1 to 3 days REQUIRED: 1 week

FREQUENCY OF PRODUCTION: Monthly for specialists at DO to annually for others.

DEPENDENCIES: None

REQUEST PARAMETERS: State, Administrative (100-0004) or State, Geographic (100-0690); District, Administrative (100-0543); Planning Unit (100-1075); Site Code Number (143-4910)

WS-151

OUTPUT DESCRIPTION
Page 2 of 2

AO-3

OUTPUT TITLE: 24 - Hour Raw Data Listing for Air Quality Stations

SORT ORDER: Identical to sequence of request parameters

ESTIMATED VOLUME: 1 to 3 copies per request with 1 to 3 pages/copy

COMPUTATIONS/PROCESSES:

None

ACCURACY: NA

SCALE: NA

ANNOTATIONS: NA

LEGEND: NA

REMARKS: None

WS-152

-24-HOUR RAW DATA LISTING FOR AIR QUALITY STATIONS-

State (0004) (0690)
Parameter (name for 4937)
Date (7308)

115-153

Sitecode				Agency Type	Project Class	DATE			PARAMETER DATA		
State	District	P.U.	NO.			YR.	MO.	DAY	CODE	UNIT	VALUE
(0004)	(0543)	(1075)	(4910)	(4905)	(4902)	(6562)			(4937+4928+4930)	(4930)	(4929)

AO-4

Prog. Area: Watershed-Air
Prep. By: G. Lipscomb
Date: 25 July 77

OUTPUT DESCRIPTION
Page 1 of 2

OUTPUT TITLE: Monthly 24-Hour Data Summary for Air Quality

OUTPUT FORM: Printout/Data Display

OUTPUT DESCRIPTION: A table summarizing air pollution parameter data by individual station. (See Attached sample).

USER(s): Air Quality Specialist; Natural Resource Specialist; Planners; Environmental Specialist, etc.

LOCATION(s): SO's; DO's; RAH's; etc.

USAGE:

As input to URA, EAR's, ES's, and activity planning.

ACCESS LIMITATIONS: None

RESPONSE TIMES: DESIRED: 1 to 3 days REQUIRED: 1 week

FREQUENCY OF PRODUCTION: Monthly for specialists at DO to annually for others

DEPENDENCIES:

None

REQUEST PARAMETERS: State, Administrative (100-0004) or State, Geographic (100-0690); District, Administrative (100-0543); Planning Unit (100-1075); Site Code Number (143-4910)

WS-154

OUTPUT DESCRIPTION
Page 2 of 2

AO-4
OUTPUT TITLE: Monthly 24 - Hour Data Summary for Air Quality

SORT ORDER: Identical to sequence to request parameters

ESTIMATED VOLUME: 1 to 3 copies per request with 1 page/copy

COMPUTATIONS/PROCESSES: Computation of arithmetic mean and arithmetic standard deviation for air pollution values.

ACCURACY: NA

SCALE: NA

ANNOTATIONS: NA

LEGEND: NA

REMARKS: None

MONTHLY 24-HOUR DATA SUMMARY FOR AIR QUALITY

TOTAL - OXIDANTS
1 Hour Average
Standards Report For May 1970 (7308)

Site Code: 31 (0004) 34 (0543) 80 (1075) 002 (4910)
Agency/Project: F01 (4905, 4902)
Agency Type: State (4905)
Supporting Agency: New Jersey State Bureau of Air Pollution Control (4906)
Comments: N.J. Site No. 07561 (6954)
County (1380): Essex (0546)
AQCR (043): New Jersey-New York-Connecticut (4959)

Latitude: N 40 D. 40 H. 30 S. (1236)
Longitude: WO 74 D. 11 H. 30 S. (1237)
UTM Zone: 18)
UTM Northing: 4,508.3 KM.)- (7515)
UTM Easting: 568.2 KM.)
Elevation Above Ground: 10 Ft. (4908)
Elevation Above MSL: 40 Ft. (0431)

1115-1355

	MDNT	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23		Mean
1 F	10	10	10	10	20	41	80	100	67	61	65	61	63	65	59	55	71	47	41	43	51	41	43	39	24	40
. .	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
. .	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
. .	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
. .	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
. .	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
7 T	37	39	37	37	27	22	24	25	25	10	10														11	27
. .	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
. .	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
. .	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
. .	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
. .	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
. .	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
. .	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
15 F	10	10	10	24	10	10	43	41	37	27	25	25	27	27	27	29	24	20	10	10	10	10	10	10	24	20
. .	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
. .	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
. .	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
. .	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
. .	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
21 T	10	10	10	10	10	10	25	37	25	31	51	84	123	163*	104	55	49	33	22	22	10	10	24	10	24	30
. .	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
. .	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
. .	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
. .	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
. .	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
. .	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
30 S	10	10	10	10	10	33	10	10	10	22	24	25	10	10	10										15	14
31 S																										
#	23	25	25	24	25	25	25	25	25	25	27	25	26	26	26	23	25	25	21	23	23	23	23	23		
Max	71	53	61	69	86	90	80	133	114	116	133	165	231	185	133	104	106	90	90	84	84	80	78	80		
Mean	22	20	71	18	20	27	35	41	37	40	44	50	57	59	53	49	45	39	33	30	32	30	29	27		

Total Samples = 586
(4965) Percent Of Possible Observations = 78.7
Arithmetic Mean = 36
Arithmetic Standard Deviation = 29
Collection Method: Instrumental (4928)

4 Starred (*) Items Exceeded The Primary Standard Of 160 Micrograms Per Cubic Meter
4 Plussed (+) Items Exceeded The Secondary Standard Of 160 Micrograms Per Cubic Meter
Primary Standard Of 000 Micrograms Per Cubic Meter Was Met
Secondary Standard Of 000 Micrograms Per Cubic Meter Was Met
Analysis Method: Alkaline KI (4928) All Times Are Standard Time

Prog. Area: ~~Watershed-Air~~
Prep. By: G. Lipscomb
Date: 25 July 77

AO-5

OUTPUT DESCRIPTION
Page 1 of 2

OUTPUT TITLE: Yearly Frequency Distribution of Air Quality Parameters by State

OUTPUT FORM: Printout/Data Display

OUTPUT DESCRIPTION: A table displaying frequency distribution of quarterly or yearly air pollution data

USER(s): Air Quality Specialist
Environmental Specialist; Natural Resource Specialist; Planners; etc.

LOCATION(s): SO's; DO's; RAH's; etc.

USAGE: As input to URA, EAR's, ES's and activity planning.

ACCESS LIMITATIONS: None

RESPONSE TIMES: DESIRED: 1 to 3 days REQUIRED: 1 week

FREQUENCY OF PRODUCTION: Monthly for DO specialist to annually for others.

DEPENDENCIES: None

REQUEST PARAMETERS: State, Administrative (100-0004) or State, Geographic (100-0690); District, Administrative (100-0543); Planning Unit (100-1075); Site Code Number (143-4910)

WS-156

AO-5

OUTPUT DESCRIPTION
Page 2 of 2

OUTPUT TITLE: Yearly Frequency Distribution of Air Quality Parameters by State

SORT ORDER: Identical to sequence of request parameters

ESTIMATED VOLUME: 1 to 3 copies per request with 1 to 3 pages/copy

COMPUTATIONS/PROCESSES: Computation of frequency distribution (quarterly or yearly) of air pollution parameter data.

ACCURACY: NA

SCALE: NA

ANNOTATIONS: NA

LEGEND: NA

REMARKS:

None

National Aerometric Data Bank
Yearly Frequency Distribution (for Quarterly data, change title)
State (31): New Jersey (0004)

Site Code: 31 (0004) 34 (0543) 80 (1075) 001 (4910)
Agency/Project: A01 (4902/4905)
Agency Type: EPA/Atmos. Surv. (4905)

Supporting Agency: Air Pollution Control Newark Dept of Health & Welfare (4906)
Comments: (6954)
County (1380): Essex Co (0546)
AQCP (C43): New Jersey-New York-Connecticut (4959)

Latitude: 40 D. 42 M. 00 S. (1236)
Longitude: 070 D. 10 M. 00 S. (1237)
UTM Zone: 19)
UTM Northing: 4505894)- (7515)
UTM Easting: 401435)
Elevation Above Ground: 065 Ft. (4908)
Elevation Above MSL: 0128 Ft. (0431)

(6562) Year	(4970) Qtr	Pollutant (4937) Pollutant-Method Code Method (4928) Interval (4925) & Units (4930)	(4971) Num Obs	Min Obs	Percentiles 10	30	50	70	90	95	99	Max Obs	Arith Mean	Geometric Mean	Geometric Std Dev
65		Particulate 1110191 Hi-Vol Gravimetric 24-Hour UG/CU Meter (25 C)	24	49.	73.	88.	112.	138.	210.	215.	285.	285.	123.	112.79	1.52
66		Particulate 1110191 Hi-Vol Gravimetric 24-Hour UG/CU Meter (25 C)	25	48.	56.	66.	81.	102.	165.	170.	179.	179.	96.	88.25	1.50
67		Particulate 1110191 Hi-Vol Gravimetric 24-Hour UG/CU Meter (25 C)	25	24.	38.	67.	92.	126.	160.	169.	191.	191.	98.	86.36	1.72
68		Particulate 1110191 Hi-Vol Gravimetric 24-Hour UG/CU Meter (25 C)	24	32.	41.	68.	90.	102.	161.	197.	200.	200.	93.	83.37	1.60
69		Particulate 1110191 Hi-Vol Gravimetric 24-Hour UG/CU Meter (25 C)	25	35.	44.	55.	74.	87.	98.	105.	166.	166.	74.	69.88	1.42
70		Particulate 1110191 Hi-Vol Gravimetric 24-Hour UG/CU Meter (25 C)	24	34.	58.	73.	81.	89.	122.	157.	171.	171.	86.	81.31	1.42
71		Particulate 1110191 Hi-Vol Gravimetric 24-Hour UG/CU Meter (25 C)	24	33.	56.	74.	80.	111.	137.	141.	186.	186.			

WS-157

AO-6

Prog. Area: Watershed-Air
Prep. By: G. Lipscomb
Date: 25 July 77

OUTPUT DESCRIPTION
Page 1 of 2

OUTPUT TITLE: State Inventory by Air Pollutant

OUTPUT FORM: Printout/Data Display

OUTPUT DESCRIPTION: A table summarizing air pollution parameter data for all stations within a state.

USER(s): Air Quality Specialist; Natural Resource Specialist; Environmental Specialist; Planners; etc.

LOCATION(s): SO's; DO's; RAH's; etc.

USAGE:
As input to URA, EAR's, ES's, and activity planning.

ACCESS LIMITATIONS:
None

RESPONSE TIMES: DESIRED: 1 to 3 days REQUIRED: 1 week

FREQUENCY OF PRODUCTION: Monthly for DO specialists to annually for others.

DEPENDENCIES:
None

REQUEST PARAMETERS: State Administrative (100-0004) or state, Geographic (100-0690); District, Administrative (100-0543); Planning Unit (100-1075); Site Code Number (143-4910)

WS-158

OUTPUT DESCRIPTION
Page 2 of 2

AO-6

OUTPUT TITLE: State Inventory by Air Pollutant

SORT ORDER: Identical to sequence of request parameters

ESTIMATED VOLUME: 1 to 3 copies per request with 1 to 3 pages/copy

COMPUTATIONS/PROCESSES: Computation of arithmetic means for air pollution parameter data by year by station

ACCURACY: NA

SCALE: NA

ANNOTATIONS: NA

LEGEND: NA

REMARKS: None

WS-139

STATE INVENTORY BY AIR POLLUTANT
National Aerometric Data Bank

New Jersey (0004) (0690)

POL-MTH CODE (4929 & 4928)	POLLUTANT NAME	(4929)	SITE CODE	AG/ PRJ	(4905) (4902)	LOCATION NAME	(0546) COUNTY	(4925) INT CODE	(4930) UNIT CODE	YEAR 6562	NUM OBS	4971 MAX OBS	ARITH MEAN
1110191	Particulate		311700001	A01	Glassboro			7	01	1970	26	107.	69.
								7	01	1971	19	105.	
								7	01	1972	14	78.	
			311700001	A05	Glassboro			7	01	1968	1	40.	
								7	01	1969	1	50.	
			3119 40 001	A01	Hamilton			7	01	1963	23	171.	95.
		(0690) (0004) (0543) (1075)						7	01	1972	8	88.	
		(4910)	311940001	A05	Hamilton			7	01	1968	2	145.	
			312260001	A01	Hunterdon Co			7	01	1964	21	152.	
								7	01	1965	23	133.	
			312320001	A01	Jersey City			7	01	1957	26	311.	167.
			313480001	A01	Newark								
			313480001	A05	Newark			7	01	1969	1	62.	
			314140001	A01	Paterson			7	01	1963	26	200.	91.

105-160

Prog. Area: Watershed-Air
Prep. By: G. Lipscomb
Date: 26 July 77

AO-7

OUTPUT DESCRIPTION
Page 1 of 2

OUTPUT TITLE: Air Quality Standards

OUTPUT FORM: Printout/Data Display

OUTPUT DESCRIPTION: A table displaying established air quality standards.

USER(s): Air Quality Specialist; Natural Resource Specialist; Environmental Specialist; Planners; etc.

LOCATION(s): SC; SO's; DO's; RAH's; etc.

USAGE:
As input to URA, EAR's; ES's, and activity planning.

ACCESS LIMITATIONS: None

RESPONSE TIMES: DESIRED: 1 to 3 days REQUIRED: 1 week

FREQUENCY OF PRODUCTION: Monthly for DO specialist to annually for others.

DEPENDENCIES: None

REQUEST PARAMETERS: State, Administrative (100-0004) or State, Geographic (100-0690); District, Administrative (100-0543); Name, Air Basin (143-4959); Name Airshed (143-4978)

WS-161

OUTPUT DESCRIPTION
Page 2 of 2

AO-7

OUTPUT TITLE: Air Quality Standards

SORT ORDER: Identical to sequence of request parameters

ESTIMATED VOLUME: 1 to 3 copies per request with 1 page/copy

COMPUTATIONS/PROCESSES:
None

ACCURACY:
NA

SCALE:
NA

ANNOTATIONS:
NA

LEGEND:
NA

REMARKS:
None

WS-162

AIR QUALITY STANDARDS

State :(0690) (0004)
District: (0543)
Planning Unit; (1075)

Air Basin or Airshed	Agency Establishing Standards	Type of Standard	Parameter Standards (4937)					
			P	SO_2	NO_2	CO	HC	ETC.
(1) (4959/4978)	(2) (5312)	(3) (4966)	(4)	(5)	(6)	(7) (4929) (3658)	(8)	

115-163

Prog. Area: Watershed-Air
Prep. By: G. Lipscomb
Date: 26 July 77

AO-8

OUTPUT DESCRIPTION
Page 1 of 2

OUTPUT TITLE: Climatological Station Index

OUTPUT FORM: Printout/Data Display

OUTPUT DESCRIPTION: A tabular listing of site information for climatological stations

USER(s): Air Quality Specialist; Meteorologist; Natural Resource Specialist; Planners; etc.

LOCATION(s): SC; SO's; DO's; RAH's; etc.

USAGE:

As input to URA and other planning activities.

ACCESS LIMITATIONS: None

RESPONSE TIMES: DESIRED: 1 to 3 days REQUIRED: 1 week

FREQUENCY OF PRODUCTION: Monthly for DO specialists to annually for others.

DEPENDENCIES:

None

REQUEST PARAMETERS: State, Administrative (100-0004) or State, Geographic (100-0690); District, Administrative (100-0543); Name, Climatological Station (143-4914); Number, Climatological Station (181-8515).

WS-164

AO-8

OUTPUT DESCRIPTION
Page 2 of 2

OUTPUT TITLE: Climatological Station Index

SORT ORDER: Identical to sequence of request parameters

ESTIMATED VOLUME: 1 to 3 copies per request with 1 to 5 pages/copy

COMPUTATIONS/PROCESSES: None

ACCURACY: NA

SCALE: NA

ANNOTATIONS: NA

LEGEND: NA

REMARKS: None

WS-165

(0543)

CLIMATOLOGICAL STATION INDEX

AO-8 (0690) (0004)
COLORADO
SEPTEMBER 1974 (491-

Ᵽ

STATION (4914)	INDEX NO. (8515)	District (0543)	COUNTY (0546	DRAINAGE (5304)	LATITUDE (1236)	LONGITUDE (1237)	ELEVATION 0431	Data Recorded				Recording Agency (2576)
								TEMP.	PRECIP.	SNOW	WIND	
AGUA FRIA	0096	04	JACKSON	4	40 38	106 38	10400					MEDICINE BOW NATL FOR
AKRON 4 E	0109	03	WASHINGTON	3	40 09	103 09	4540					USDA CEN GR PLAINS FO S
AKRON FAA AP	0114	03	WASHINGTON	3	40 10	103 13	4663	!	!			FED AVIATION AGENCY
ALAMOSA WSO AP R	0130	05	ALAMOSA	5	37 27	105 52	7536	!	!			NATL WEATHER SERVICE
ALLENSPARK	0183	04	BOULDER	4	40 12	105 32	8500					MRS ALTA L COATS
ALTENBERN	0214	02	GARFIELD	2	39 30	108 23	5690					ORVILLE C ALTENBERN
AMES	0228	02	SAN MIGUEL	2	37 52	107 53	8701					WEST COLO POWER CO
AMY	0242	01	LINCOLN	1	38 53	103 39	5240					BEN H MARSHALL
ANTERO RESERVOIR	0263	04	PARK	4	39 00	105 53	8920					BOARD OF WATER COMM
APEX 1 W	0289	04	GILPIN	4	39 52	105 35	10400					NATL WEATHER SERVICE
ARAPAHO RIDGE	0298	04	GRAND	4	40 21	106 23	10965					MEDICINE BOW NAT FOREST
ARAPAHOE	0304	03	CHEYENNE	3	38 51	102 11	4020					CLEMENT O. MITCHELL
AROYA 6 NE	0343	01	CHEYENNE	1	38 55	103 05	4787					CLOSED 10/19/72
ASPEN	0370	02	PITKIN	2	39 11	106 50	7928					MRS. MARTHA W. MADSEN
BAILEY	0454	04	PARK	4	39 24	105 29	7733					U S FOREST SERVICE
BASALT	0514	02	EAGLE	2	39 22	107 02	6624					INACTIVE 7/1/72
BEAVER RESERVOIR	0571	04	BOULDER	4	40 07	105 31	9160					NATL WEATHER SERVICE
BENNETT CREEK	0629	04	LARIMER	4	40 40	105 33	8100					NATL WEATHER SERVICE
BERTHOUD PASS	0674	02	GRAND	2	39 48	105 47	11314					U S FOREST SERVICE
BLANCA	0776	05	COSTILLA	5	37 26	105 31	7750					MRS. ETHEL KESTER
BLUE MESA LAKE	0797	02	GUNNISON	2	38 28	107 13	7630					U S NATL PARK SERVICE
BOND	0810	02	EAGLE	2	39 53	106 41	6700					AGENT. D & RGW RR
BONHAM RESERVOIR	0825	02	MESA	2	39 06	107 54	9835					U S BUR RECLAMATION
BONNY LAKE	0834	03	YUMA	3	39 38	102 11	3748					U S BUR RECLAMATION
BOULDER 2	0843	04	BOULDER	4	40 01	105 16	5400					THOMAS L PLATT
BOULDER	0848	04	BOULDER	4	40 00	105 16	5420					NAT. BUR. OF STANDARDS
BRANDON	0895	01	KIOWA	1	38 27	102 27	3930					MRS ELSIE E WHITE
BRANSON	0898	01	LAS ANIMAS	1	37 01	103 53	6292					CHARLES S MITCHELL
BRECKENRIDGE	0909	02	SUMMIT	2	39 29	106 02	9560					LOREN R ENYEART
BRIGGSDALE	0945	04	WELD	4	40 38	104 19	4850					THOMAS W. STAPLETON
BRIGHTON	0950	04	ADAMS	4	39 59	104 50	4980					MERL J SOTH
BROWNS PARK REFUGE	1017	02	MOFFAT	2	40 48	108 55	5354					BUREAU OF SPORT F & WLD
BUENA VISTA	1071	01	CHAFFEE	1	38 51	106 08	7954					LLOYD R SWEDHIN
BUENA VISTA 5 NE	1077	01	CHAFFEE	1	38 55	106 08	9090					NATL WEATHER SERVICE
BUFFALO PARK 1 N	1080	04	JACKSON	4	40 59	106 41	9760					MEDICINE BOW NAT FOREST
BURLINGTON	1121	03	KIT CARSON	3	39 19	102 16	4165					MUNICIPAL POWER PLANT
BURLINGTON 12 NNE	1126	03	KIT CARSON	3	39 28	102 09	4230					MRS CHARLOTTE A JAMES
BUTLER RANCH	1157	01	PUEBLO	1	38 02	104 28	4850					MRS AURORA A NAVARRO
BYERS 5 ENE	1179	04	ADAMS	4	39 45	104 08	5100					MRS. SHIRLEY DIEDRICH
CABIN CREEK	1186	04	CLEAR CREEK	4	39 39	105 42	10018					PUBLIC SERVICE CO
CAMERON PASS	1236	04	LARIMER	4	40 31	105 54	10301					MEDICINE BOW NAT FOREST
CAMPO 7 S	1268	01	BACA	1	37 01	102 34	4300					FRED C. TANNER
CANON CITY	1294	01	FREMONT	1	38 26	105 16	5343					WARDEN PENITENTIARY
CASCADE	1384	02	SAN JUAN	2	37 40	107 48	8853					NATL WEATHER SERVICE
CASTLE ROCK	1401	04	DOUGLAS	4	39 22	104 52	6200					GEORGE KOBOLT
CEDAREDGE	1440	02	DELTA	2	38 54	107 56	6180					MRS CAROLYNN M ANDERSON
CENTER 4 SSW	1458	05	RIO GRANDE	5	37 44	106 08	7683					SAN LUIS VALLEY EXP STA
CHEESMAN	1528	04	JEFFERSON	4	39 13	105 17	6875					BOARD OF WATER COMM
CHERAW	1539	01	OTERO	1	38 06	103 30	4082					SIMON B SCHULTZ
CHERRY CREEK DAM	1547	04	ARAPAHOE	4	39 39	104 51	5647					CORPS OF ENGINEERS
CHEYENNE WELLS	1564	03	CHEYENNE	3	38 49	102 21	4250					CARL A LOVELL
CIMARRON	1609	02	MONTROSE	2	38 27	107 33	6896					W. H. NEWBERRY
CLIFF LAKES	1644	02	RIO BLANCO	2	39 50	107 33	9250					NATL WEATHER SERVICE
CLIMAX	1660	01	LAKE	1	39 22	106 11	11350					CLIMAX MOLYBDENUM CO
COALDALE 1 NW	1693	01	FREMONT	1	38 23	105 47	6525					R L BANTA
COALDALE 2 SW	1698	01	FREMONT	1	38 21	105 47	6900					INACTIVE 4/6/65
COCHETOPA CREEK	1713	02	GUNNISON	2	38 26	106 46	8000					HAROLD F KREUGER
COLLBRAN 2 SW	1741	02	MESA	2	39 14	107 58	6130					MRS. VIVIAN A. KELLEY
COLORADO NAT MON	1772	02	MESA	2	39 06	108 44	5280					SUPT COLO NAT MON
COLORADO SPRGS WSO AP	1778	01	EL PASO	1	38 49	104 43	6090	|	|			NATL WEATHER SERVICE
COLUMBINE	1792	02	ROUTT	2	40 51	106 58	8699					NATL WEATHER SERVICE
CONIFER 3 NE	1826	04	JEFFERSON	4	39 32	105 16	7770					MRS ADDALINE L JOHNSON
CORTEZ	1886	02	MONTEZUMA	2	37 21	108 34	6177					MONTEZUMA VAL IRRIG
CRAIG	1928	02	MOFFAT	2	40 31	107 33	6285					MRS OLIVE JEAN SMITH
CRESTED BUTTE	1959	02	GUNNISON	2	38 52	106 58	8880					E F BENNER
CRIPPLE CREEK 9 NW	1978	01	TELLER	1	38 52	105 18	8500					INACTIVE 10/1/71
CUCHARAS DAM	2040	01	HUERFANO	1	37 45	104 36	5765					ARCHER B CRISP
CUMBRES	2043	05	CONEJOS	5	37 01	106 27	10018					NATL WEATHER SERVICE
DEADMAN HILL	2112	04	LARIMER	4	40 48	105 46	10240					NATL WEATHER SERVICE

SEE REFERENCE NOTES FOLLOWING STATION INDEX

WS-166

Prog. Area: Watershed-Air
Prep. By: G. Lipscomb
Date: 26 July 77

AO-9

OUTPUT DESCRIPTION
Page 1 of 2

OUTPUT TITLE: Daily Precipitation Summary by Station

OUTPUT FORM: Printout/Data Display

OUTPUT. DESCRIPTION: A table summarizing daily precipitation by climatological station (See attached).

USER(s): Metearologist; Air Resource Specialist; Natural Resource Specialist; Planners; Hydrologist; etc.

LOCATION(s): SO's; DO's; RAH's; etc.

USAGE: As input to URA, EAR's, ES's, Activity Planning, and project design.

ACCESS LIMITATIONS: None

RESPONSE TIMES: DESIRED: 1 to 3 hours REQUIRED: 1 day

FREQUENCY OF PRODUCTION: Weekly by RAH and DO specialists to annually by others.

DEPENDENCIES:
None

REQUEST PARAMETERS: State, Administrative (100-0004) or State, Geographic (100-0690); Name, Climatological Station (143-4914); Code, Watershed (145-5304)

WS-167

AO-9

OUTPUT DESCRIPTION
Page 2 of 2

OUTPUT TITLE: Daily Precipitation Summary by Station

SORT ORDER: Identical to sequence of request parameters

ESTIMATED VOLUME: 1 to 3 copies per request with 1 to 5 pages/copy

COMPUTATIONS/PROCESSES:

Computation of daily and monthly precipitation totals from recorded values (hourly, daily, etc.) for individual stations.

ACCURACY: NA

SCALE: NA

ANNOTATIONS: NA

LEGEND:

NA

REMARKS:

None

WS-168

'0004'
1069
7308

A0-9

DAILY PRECIPITATION SUMMARY BY STATION

COLORADO
SEPTEMBER 1974

(4914) (5304)

STATION	TOTAL	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
* * * ARKANSAS DRAINAGE BASIN 01																																
AMY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
BRANDON	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
BRANSON	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
BUENA VISTA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
BUTLER RANCH	.89												.07				.08												.74			
CAMPO 7 S	1.02	.35	.01										T	.16	.12	T					.01								.37			
CANON CITY	2.28		.12	.09						.01			.09	.02			.40												1.56			
CLIMAX	.54			T			.02				.04		.02			.05	.13	.17											.11			
COLORADO SPRGS WSO AP	.43	T	.04			.02	T		T	.01	T	T	.02	T	T	.02	T					T					T	.32				
DELHI	.41															.08	.04												.28			
DOHERTY RANCH	.47												.22																.25			
EADS	.04		T																						T				.04			
FORDER 8 S	.44	T														T													.44			
FOUNTAIN 2 NW	.42					.05										T													.37			
FOWLER 1 SE	.40																												.40			
GUFFEY 10 SE	1.77		.11	.04							T		T	.30			.60	.12				.03							.50	.07		
HASWELL	.06		.02										.02																.02			
HOLLY	.04						T									T													.04			
JOHN MARTIN DAM	-									-																						
KARVAL	.41																												.41			
KIT CARSON	.14		.04																										.10			
LA JUNTA FAA AP	.12	T											T			.02												.10				
LAMAR	.03						T					T	T			T	T											.03				
LAS ANIMAS	.05													T		T												T	.05			
LEADVILLE	.44					.04	T			.01			T	.01	.07	.20	.06		.02									.03	T			
LIMON WSMO	.44	T	.14			.01						.01	.03															.25				
NORTH LAKE	1.30		.12								.05		.07	.08		.32	.46		.01			.05						.02	.20			
ORDWAY	.26												.01				T												.25			
PALMER LAKE	.94		.15				.18					.02	.22				.03												.33			
PUEBLO WSO AP //R	.65		.03									T	.01	.06	T	.01	T				.01							.53				
PUEBLO ARMY DEPOT	1.81			1.30									T				T												.51			
PUEBLO 0 SSW	1.14		T	.10									.04	.01	.06	.01	.13					.02							.78			
ROCKY FORD 2 SE	.21	.02														.05													.14			
RUXTON PARK	1.21		.10										.15	.10	.05	.11	.10												.60			
RYE	1.08		.60														.32												.00			
SALIDA 3 W	.24													T	T	.24	T	T										T				
SPRINGFIELD	.12																												.12			
SPRINGFIELD 7 WSW //	.12		.03										T		.09																	
STONINGTON	1.25	.08						.02							.14														.11			
SUGARLOAF RSVR 1 ESE	.65						.04			T	.03		T	.01			.37	.05								T		T	T	T	.05	
TACONY 10 SE	.53												T															.05	.48			
TRINIDAD	1.19		.11	.01									.17			.25	.11					.02							.52			
TRINIDAD FAA AP	.61	T	.07								T	T	.04		.02	.10						T						.38				
TROY 1 SE	.61		.17						.07				T	.07	.05							T							.25			
TWIN LAKES RESERVOIR	.46															.33	.13	T														
TWO BUTTES	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
VICTOR	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
WALSENBURG POWER PLANT	1.03		.14	T						.04	T		.14	.03			.20					T						.01	.47			
WALSH	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
WESTCLIFFE	1.77	T	.08							.05				.18	.12	1.04	.07												.22			
WETMORE 8 S	1.84		.31	.01						.05			.18	.24	.22	.18	.25					.02					T	.05	.45			
* * * COLORADO DRAINAGE BASIN 02																																
ALTENBERN	1.36												.18		.44	.60	.13															
AMES	1.04	T				.07	.01			.01	T		T		.24	.32	.03	.22	.10	.07			T	.38	.16	.28	.03	.01				
ASPEN	1.02					T	.02			.01	T		.35		.06	.44	.02			T								.12				
BERTHOUD PASS	1.00		.42				.02						.60			.30	.18	.08											.20			
BLUE MESA LAKE	.30										.02				.04	.21		T		.08						.02	.01	T				
BOND	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
BONHAM RESERVOIR	.76																.65							.11								
BRECKENRIDGE	1.16		.14				.18			.08			.18		.06		.14											.18	.20			
BROWNS PARK REFUGE	.41								.03			.06	.33													T						
CEDAREDGE	.60										T				.10	.38	.12															
CIMARRON	1.27													T	.02	.03	.20		1.02													
COCHETOPA CREEK	.54										.07						.40									.00						
COLLBRAN 2 SW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
COLORADO NAT MON	.31					.02									.18	.10																
CORTEZ	.71														.30	.06	.06	.14					.08		.07							
CRAIG	.47										T	.42	T		T													.05				
CRESTED BUTTE	.70					T				.02					.20	.36	.09	.02						.03	T			T				
DELTA 3 NW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
DILLON 1 E	.67		.12				.02						.15		.06	.08	.16	T										.07	.01			
DINOSAUR NATL MONUMENT	.22												.08		.08	.06												T				
DOLORES	1.04															.40			.12					.37		.07	.08					
DURANGO	1.11						T						T		T	.65	T	.05	.04		.04	.02	.31									
EAGLE FAA AP	.58		T			T						.18	.12		.05	.12	.09								.01			.01				
ELECTRA LAKE //R	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
FORT LEWIS	.01														.68			.05								.20						
FRASER	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
FRUITA	.21						.03						.06		T	.04	.07	T														
GATEWAY 1 SW	.82										T		T		.67	.15										T						
GLENWOOD SPRINGS 1 N	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
GRAND JUNCTION WSO AP //R	.38											.01			.16	.18	.03								T							
GRAND JUNCTION 6 ESE	.32															.20	.07	.05														
GRAND LAKE 1 NW	1.84		.17							.08	.03	.01	.50		.80	.20	.02	.07										.03	.03			
GRAND LAKE 6 SSW	.81		.16							.01	.04		.55		T	.05	T	.02										.08	T			
GRAND VALLEY	1.04												.56		.10	.17	.21															
GREEN MOUNTAIN DAM	.87		.16			T	.13				.05		.41		.03	.05	.05											.08				
GUNNISON	.46									.01	T				.03	.35	.02	T								.05		T				
HAMILTON	.45												.45																			
HAYDEN	.30		.03			.01							.19		.01													.06				
HOT SULPHUR SPRS 2 SW	.92		.15						.04	.02	T		.54		.01	.04	.08											.03	.01			
IGNACIO 1 N	.91														.05	.32	.23		.01					.30								
INDEPENDENCE PASS 5 SW	.87												.10	.11	.06	.20		.04						.04				.32				
KREMMLING	.62												.37		.25																	
LAKE CITY	.15															.10								.05								
LITTLE HILLS	.32											T	.17		.10	.03	.02															
MANCOS	1.33					T										.53	.08	T		.05	.50		.05	.15								
MARVINE RANCH	1.15														.70		.45															
MAYBELL	.32												.30															.02				
MEEKER NO. 2	.46										T		.25		.21	.01	.01															
MEREDITH	.61						T						.25	T			.25	.02													.09	
MESA LAKES RESORT	.80						T				.07		T		.11	.58		.04										T				
MESA VERDE NATL PARK	1.04					.05					T				.02	.35	.06	.06		.02	.02	T	T	.30	.04	.12						
MONTROSE NO 1	.65										.03				.22	.24	.11	T								T						
MONTROSE NO 2	.68										.03				T	.44	.20		T							T						
NORTHDALE	.87														.12	.42	T	.10					.18									

SEE REFERENCE NOTES FOLLOWING STATION INDEX

WS-169

AO-10

Prog. Area: Watershed-Air
Prep. By: G. Lipscomb
Date: 26 July 77

OUTPUT DESCRIPTION
Page 1 of 2

OUTPUT TITLE: Daily Temperature Summary by Station

OUTPUT FORM: Printout/Data Display

OUTPUT DESCRIPTION: A table summarizing daily temperature (Maximum/Minimum) data by Climatological Station (See Attached)

USER(s): Meteorologist; Air Resource Specialist; Natural Resource Specialist; Planners; etc.

LOCATION(s): SO's; DO's; RAH's; etc.

USAGE: As input to URA, EAR's, ES's, Activity Planning, and Project Design.

ACCESS LIMITATIONS: None

RESPONSE TIMES: DESIRED: 1 to 3 hours REQUIRED: 1 day

FREQUENCY OF PRODUCTION: Weekly by RAH/DO Specialists to annually by others.

DEPENDENCIES:

None

REQUEST PARAMETERS: State, Administrative (100-0004) or State, Geographic (100-0690); Name, Climatological Station (143-4914); Code, Watershed (145-5304)

WS-170

OUTPUT DESCRIPTION
Page 2 of 2

AO-10

OUTPUT TITLE: Daily Temperature Summary by Station

SORT ORDER: Identical to sequence of request parameters

ESTIMATED VOLUME: 1 to 3 copies per request with 1 to 5 pages/copy

COMPUTATIONS/PROCESSES: Computation of average, monthly maximum and minimum temperatures from recorded daily maximum and minimum temperatures for individual stations.

ACCURACY: NA

SCALE: NA

ANNOTATIONS: NA

LEGEND: NA

REMARKS:

None

WS-170.1

A0-10

'(0004)
(0600)
(7306)

DAILY TEMPERATURE SUMMARY BY STATION

COLORADO
SEPTEMBER 1974

P

DAY OF MONTH

(4914)

(5304)

STATION		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	AVERAGE
ARKANSAS DRAINAGE BASIN 01																																	
BRANSON	MAX	(5378)																															
	MIN	(5379)																															
BUENA VISTA	MAX																																
	MIN																																
CANON CITY	MAX		76	54	70	83	90	78	91	90	90	93	77	59	55	56	69	72	70	72	74		72	60	72	80	80	83	71	70	76		74.4 (4982)
	MIN	51	47	45	50	57	59	58	57	60	60	39	38	35	43	45	54	50	51	53	44	44	43	45	53	47	51	31	50	35	39		47.7 (4985)
CLIMAX	MAX	62	84	55	58		60	62	83	65	87	68	63	51	54	50	42	47	46	57	59	58	58	55	81	87	57	55	49	45	53		58.8
	MIN	37	29	24	28		32	30	39	43	40	40	26	23	23	29	30	28	30	30	28	26	27	28	32	29	30	29	17	22	28		29.6
COLORADO SPRGS WSO AP	MAX	69	52	67	77	88	74	86	87	86	90	77	45	56	66	61	69	72	76	74	67	57	70	78	73	77	81	67	80	71	70		71.4
	MIN	51	42	41	44	49	53	49	52	53	58	44	35	38	40	50	52	45	46	45	42	44	39	44	48	41	47	35	32	39	37		44.5
DELHI	MAX	87	75	78	87	97	87	95	95	94	97	87	83	78	76	70	72	78	80	80	70	88	78	78	83	85	90	80	69	83	73		81.7
	MIN	50	45	43	38	39	48	45	40	55	56	56	47	45	45	49	56	40	40	40	40	48	46	48	57	37	45	58	32	35	38		45.4
EADS	MAX	84	56	73	82	94	83	96	95	100	101	82	57	84	75	78	77	81	85	85	70	70	73	79	82	82	91	80	71	83	72		79.4
	MIN	48	45	34	39	44	50	49	48	58	86	52	38	37	45	45	65	46	45	45	52	45	43	46	30	36	44	45	33	35	38		44.6
FORDER 8 S	MAX	81	55	69	80	92	80	91	92	91	98	95	60	63	71	76	77	80	80	83	74	85	73		80	81	84	84	85	87	75		78.7
	MIN	48	44	32	34	36	50	43	42	49	47	51	38	43	42	41	46	41	40	42	47	44	39		35	35	39	48	32	34	35		41.3
HOLLY	MAX	91	86	69	71	81	94	82	92	95	95	100	74	59	62	68	73	75	83	83	67	67	89	70	71	74	82	91	78	72	83		78.2
	MIN	50	48	32	34	43	50	49	53	51	54	57	44	44	42	42	57	52	43	43	41	49	48	50	47	41	41	40	39	35	42		45.4
JOHN MARTIN DAM	MAX	88	71	75	84	96	92	94	96	97	100	98	75	65	75	74	78	85	84	87	82	73	75	82	81	84	91	90	71	82	82		83.8
	MIN	53	48	34	40	48	48	50	50	82	58	57	42	42	47	43	58	47	45	50	55	47	49	51	41	38	41	52	36	35	40		46.8
KIT CARSON	MAX	79	65	63	83	93	83	96	95	95	100	91	57	63	75	80	79	83	84	82	71	70	75	79	82	84	94	84	70	84	75		80.5
	MIN	47	45	33	35	44	51	47	48	55	50	53	38	47	44	43	49	43	42	43	48	46	39	40	37	38	40	49	34	36	38		43.3
LA JUNTA FAA AP	MAX	71	63	77	85	97	84	96	98	97	101	81	57	68	77	76	78	83	83	89	69	71	78	84	83	85	91	81	70	82	75		81.0
	MIN	54	47	42	45	48	58	65	54	82	62	53	44	49	50	50	57	52	51	51	53	61	48	49	43	46	47	40	38	42	40		49.4
LAMAR.	MAX	71	88	72	82	96	85	96	94	95	93	81	59	63	73	77	72	84	84	89	64	71	74	78	77	84	91	77	70	83	74		79.1
	MIN	51	48	37	43	48	58	50	53	61	55	53	44	47	49	45	57	48	47	51	49	49	48	46	43	41	44	45	38	38	41		47.6
LAS ANIMAS	MAX	77	60	77	85	96	92	96	97	95	100	82	59	68	78	77	78	82	83	88	68	70	75	83	79	85	92	79	71	82	75		80.8
	MIN	53	49	35	42	45	55	52	49	82	55	57	42	46	47	44	58	48	46	50	54	48	48	48	41	40	44	48	37	37	41		47.3
LEADVILLE	MAX	65	61	63	85	67	66	87	70	72	70	66	58	57	54	44	57	55	59	82	82	60	83	63	59	81	59	53	49	58	59		60.8
	MIN	31	33	22	25	24	30	27	29	35	36	36	26	27	30	30	29	25	26	26	26	27	27	25	26	25	28	25	15	21	18		27.0
LIMON WSMO	MAX	65	48	87	79	84	78	85	89	91	92	64	46	60	70	69	73	76	78	70	66	66	71	79	75	80	83	83	85	75	73		72.7
	MIN	44	40	38	37	41	47	49	47	47	51	46	32	38	35	44	40	40	43	43	37	37	34	34	41	34	49	33	31	36	29		39.8
NORTH LAKE	MAX	77	69	65	68	76	74	77	81	80	78	76	75	53	58	54	52	55	58	66	67	66	59	88	66	69	69	67	62	68	69		67.0
	MIN	37	35	32	31	32	35	36	44	38	45	44	30	28	32	35	35	34	35	37	30	33	33	27	39	35	32	32	18	27	28		33.6
PALMER LAKE	MAX	86	81	46	73	82	86	72	87	85	88	89	71	38	48	65	59		72	79	70	63	52	79		72	80	81	60	64	72		71.4
	MIN	46	38	33	37	48	45	45	49	51	57	41	25	28	31	34	43		47	44	36	36	34	41		39	49	48	27	34	30		39.6
PUEBLO WSO AP	MAX	76	57	72	84	95	81	93	95	93	97	81	52	84	70	69	77	79	79	81	74	67	73	82	83	84	87	79	67	79	73		78.1
	MIN	52	49	50	44	46	60	52	50	58	60	52	44	47	44	55	56	54	49	48	50	50	45	46	44	43	45	42	39	37	44		48.5
PUEBLO 6 SSW	MAX	87	70	51	89	80	92	78	90	92	92	94	78	64	64	70	66	74	81	64	66	56	60	57	64	86	66	70	80	50	60		70.0
	MIN	43	42	41	40	39	60	55	54	51	55	55	36	41	36	42	49	40	38	36	32	38	38	37	37	39	35	46	32	32	37		41.7
ROCKY FORD 2 SE	MAX	84	68	75	81	95	83	93	95	94	96	94	67	65	76	73	75	79	81	84	75	88	75	81	82	83	69	85	68	79	76		80.7
	MIN	52	49	40	41	44	53	50	44	63	54	55	43	48	45	46	54	43	42	43	54	49	43	43	38	38	37	56	34	34	38		45.4
RUXTON PARK	MAX	72	54	56	65	73	69	72	73	74	78	71	55	44	55	44	51	56	60	60	55	54	57	63	62	63	67	58	47	57	60		60.8
	MIN	43	31	28	27	33	32	33	33	36	40	47	25	24	30	31	30	31	30	29	29	30	28	29	27	28	29	30	18	23	26		30.3
RYE	MAX	77	74	67	76	82	75	84	82	83	85	86	75	62	62	57	60	65	78	70	67	60	65	70	72	74	77	77	58	78	66		72.2
	MIN	40	40	33	36	39	39	39	37	44	43	45	44	32	34	40	43	41	38	37	34	39	34	37	38	32	35	34	25	28	28		36.9
SALIDA 3 W	MAX	80	55	78	80	79	78	82	85	84	84	62	59	83	66	52	85	67	73	74	75	65	73	74	74	75	75	69	66	73	75		72.7
	MIN	46	42	35	35	39	42	40	40	44	48	48	38	35	40	38	42	41	38	37	37	43	39	41	38	34	38	32	24	35	29		38.5
SPRINGFIELD 7 WSW	MAX	79	59	69	79	89	84	91	91	93	98	88	64	58	65	71	73	77	78	82	74	64	66	66	70	79	87	80	67	77	71		76.2
	MIN	51	44	35	42	49	59	52	57	57	56	56	39	43	42	45	53	47	48	52	52	41	49	47	43	43	43	51	36	37	37		46.9
SUGARLOAF RSVR 1 ESE	MAX	69	70	65	65	69	68	68	71	73	74	73	70	60	60	56	45	51	54	63	66	55	62	66	65	66	64	61	51	51	81		63.4
	MIN	28	39	29	20	26	27	25	25	31	32	33	30	29	31	32	31	23	24	25	24	24	29	24	23	21	23	24	23	19	13		26.2
TACONY 10 SE	MAX	75	64	72	80	95	80	94	94	93	99	68	59	83	70	72	75	79	80	81	70	65	73	78	80	82	90	79	67	78	71		78.2
	MIN	51	45	41	40	44	57	48	49	56	57	54	37	42	42	44	52	43	46	45	40	45	41	43	42	39	43	42	34	38	37		44.6
TRINIDAD	MAX	88	75	72	78	85	84	86	87	89	67	85	73	58	69	67	86	69	70	75	74	62	58	67	73	77	80	78	62	73	75		74.9
	MIN	51	41	41	44	46	49	51	48	52	51	50	35	37	44	48	48	42	44	42	43	41	47	44	42	39	40	45	28	37	34		43.5
TRINIDAD FAA AP	MAX	87	52	75	81	88	79	91	91	92	90	84	49	59	72	61	66	72	71	83	72	66	66	72	77	83	64	75	64	76	73		74.9
	MIN	50	44	41	45	55	53	54	58	61	53	49	39	42	48	50	48	45	47	46	45	44	47	48	45	42	47	32	31	39	38		46.1
TWIN LAKES RESERVOIR	MAX	88	66	65	65	67	67	69	72	73	73	70	62	50	51	43	55	52	63	65	66	63	85	85	63	62	61	54	52	60	60		87.2
	MIN	32	30	30	25	32	33	28	30	36	35	29	32	29	30	32	34	27	28	28	29	33	35	28	29	25	32	25	29	27	17		29.6
TWO BUTTES	MAX																																
	MIN																																
VICTOR	MAX																																
	MIN																																
WALSENBURG POWER PLANT	MAX	83	75	72	81	89	84	86	89	89	87	87	72	55	71	83	65	69	72	78	71	61	69	77	78	79	80	78	68	71	74		75.9
	MIN	45	40	39	40	44	49	45	48	49	58	43	34	36	42	45	45	42	42	43	37	42	41	46	45	40	46	43	28	35	31		42.1
WALSH	MAX																																
	MIN																																
WESTCLIFFE	MAX	83	60	71	77	87	77	80	82	84	79	78	67	59	69	60	61	61	68	69	68	61	83	74	69	72	71	63	84	69	70		70.5
	MIN	40	40	38	26	28	34	31	28	36	38	41	34	31	37	39	41	38	31	33	31	40	39	33	37	28	28	32	22	21	23		33.1
WETMORE 9 S	MAX	69	59	67	79	81	79	80	81	82	82	76	60	47	57	55	58	81	67	64	59	55	60	70	64	72	74	67	57	66	68		66.9
	MIN	46	37	39	38	43	42	42	46	47	55	53	29	32	36	40	42	41	40	43	35	39	37	43	42	38	45	35	25	35	28		39.7

SEE REFERENCE NOTES FOLLOWING STATION INDEX

WS-171

Prog. Area: Watershed-Air
Prep. By: G. Lipscomb
Date: 26 July 77

AO-11

OUTPUT DESCRIPTION
Page 1 of 2

OUTPUT TITLE: Daily Snowfall and Snow on Ground Summary by Station

OUTPUT FORM: Printout/Data Display

OUTPUT DESCRIPTION: A table summarizing daily snowfall and snow on ground data by climatological station (see attached).

USER(s): Meteorologist; Hydrologist; Natural Resource Specialist; Planners; etc.

LOCATION(s): SO's; DO's; RAH's; etc.

USAGE: As input to URA, EAR's, ES's, Activity Plans, and Project Design.

ACCESS LIMITATIONS: None

RESPONSE TIMES: DESIRED: 1 to 3 hours REQUIRED: 1 day

FREQUENCY OF PRODUCTION: Weekly by RAH/DO specialists to annually by others.

DEPENDENCIES: None

REQUEST PARAMETERS: State, Administrative (100-0004) or State, Geographic (100-0690); Name, Climatological Station (143-4914); Code, Watershed (145-5304)

WS-172

OUTPUT DESCRIPTION
Page 2 of 2

AO-11

OUTPUT TITLE: Daily Snowfall and Snow on Ground Summary by Station

SORT ORDER: Identical to sequence of request parameters

ESTIMATED VOLUME: 1 to 3 copies per request with 1 to 3 pages/copy

COMPUTATIONS/PROCESSES: Computation of daily snowfall, snow on ground, and snow water equivalent from recorded values (hourly, daily, etc.) for individual stations.

ACCURACY:
NA

SCALE: NA

ANNOTATIONS: NA

LEGEND:
NA

REMARKS:
None

WS-173

A0-11 (0004
(0690
(7308

DAILY SNOWFALL AND SNOW ON GROUND SUMMARY BY STATION

COLORADO
SEPTEMBER 1974

P

(4914)
(5304)
(5377)
(5376)

STATION		DAY OF MONTH																														
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
■ ■ ■ ARKANSAS DRAINAGE BASIN 01																																
CLIMAX	SNOWFALL												T			.5	T	.9											1.0			
	SN ON GND												T			T	T	1											T			
COLORADO SPRGS NSO AP	SNOWFALL												T	T														T				
	SN ON GND																															
	NTR EQUIV																															
RUXTON PARK	SNOWFALL																												6.0			
	SN ON GND																															
TRINIDAD FAA AP	SNOWFALL																											.5				
	SN ON GND																												T			
WESTCLIFFE	SNOWFALL																												1.0			
	SN ON GND																															
■ ■ ■ COLORADO DRAINAGE BASIN 02																																
ASPEN	SNOWFALL																											T				
	SN ON GND																															
BERTHOUD PASS	SNOWFALL		3.5				T						5.0			2.5	1.0	T											2.5			
	SN ON GND		3				T						5	1		2	1	T											2			
BOND	SNOWFALL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	SN ON GND	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
DILLON 1 E	SNOWFALL												T															T	T			
	SN ON GND																															
■ ■ ■ PLATTE DRAINAGE BASIN 04																																
BOULDER	SNOWFALL												2.7																			
	SN ON GND																															
DENVER NSO AP	SNOWFALL											T	1.8																			
	SN ON GND												1																			
	NTR EQUIV																															
ESTES PARK	SNOWFALL												4.0																			
	SN ON GND												4																			
EVERGREEN	SNOWFALL												3.0															.5				
	SN ON GND																															
FORT COLLINS	SNOWFALL												.5																			
	SN ON GND												1																			
RED FEATHER LAKES 2 SE	SNOWFALL		.5										8.4															.7				
	SN ON GND		T										8	1														T				
SPICER	SNOWFALL												2.0															T				
	SN ON GND																															
WALDEN	SNOWFALL												4.0															T				
	SN ON GND																															
■ ■ ■ RIO GRANDE DRAINAGE BASIN 05																																
ALAMOSA NSO AP	SNOWFALL																											T				
	SN ON GND																															
	NTR EQUIV																															

SEE REFERENCE NOTES FOLLOWING STATION INDEX

WS-174

Prog. Area: Watershed-Air
Prep. By: G. Lipscomb
Date: 26 July 77

AO-12

OUTPUT DESCRIPTION
Page 1 of 2

OUTPUT TITLE: Table of Daily Wind Speed and Direction by Station

OUTPUT FORM: Printout/Data Display

OUTPUT DESCRIPTION: A table summarizing daily wind speed and wind direction data by climotological station (See attached).

USER(s): Meteolologist; Air Resource Specialist; Natural Resource Specialist; Planners; etc.

LOCATION(s): SO's; DO's; RAH's; etc.

USAGE: As input to URA, EAR's ES's, Activity Plans, and Project Design.

ACCESS LIMITATIONS: None

RESPONSE TIMES: DESIRED: 1 to 3 hours REQUIRED: 1 day

FREQUENCY OF PRODUCTION: Weekly by RAH/DO Specialists to annually by others.

DEPENDENCIES: None

REQUEST PARAMETERS: State, Administrative (100-0004); State, Geographic (100-0690); Name, Climatological Station (143-4914); Code, Watershed (145-5304)

WS-175

AO-12

OUTPUT DESCRIPTION
Page 2 of 2

OUTPUT TITLE: Table of Daily Wind Speed and Direction by Station

SORT ORDER: Identical to sequence of request parameters

ESTIMATED VOLUME: 1 to 3 copies per request with 1 to 3 pages/copy

COMPUTATIONS/PROCESSES:

Computation of daily wind speed and wind direction from recorded values (hourly, daily, etc.) for individual stations.

ACCURACY:

NA

SCALE:

NA

ANNOTATIONS:

NA

LEGEND:

NA

REMARKS:

None

WS-176

115-177

TABLE OF DAILY WIND SPEED AND DIRECTION BY STATION

State (ooo4) (o690)
District (0543)
Year
Month - (8518)

Station (4914)	speed mph / o Direct.	(8518) Days of Month 1	2	3	4	etc.
Alamosa	Speed					
	Direct					
Blanca	Speed		P (from 5376 and 5377)			
	Direct					

AO-13

Prog. Area: Watershed-Air
Prep. By: G. Lipscomb
Date: 26 July 77

OUTPUT DESCRIPTION
Page 1 of 2

OUTPUT TITLE: Table of Monthly Temperature and Precipitation by Station

OUTPUT FORM: Printout/Data Display

OUTPUT DESCRIPTION: A table summarizing monthly temperature and precipitation data by climatological station (See Attached)

USER(s): Meteolologist; Hydrologist; Natural Resource Specialist; Air Resource Specialist; Planners; etc.

LOCATION(s): SO's; DO's; RAH's; etc.

USAGE:

As input to URA, EAR's, ES's, Activity Plans, and Project Design.

ACCESS LIMITATIONS: None

RESPONSE TIMES: DESIRED: 1 to 3 days REQUIRED: 1 week

FREQUENCY OF PRODUCTION:

Monthly for RAH/DO Specialists to annually for others.

DEPENDENCIES:

None

REQUEST PARAMETERS: State, Administrative (100-0004) or State, Geographic (100-0690); Name, Climatological Station (143-4914); Code, Watershed (145-5304)

WS-178

AO-13

OUTPUT DESCRIPTION
Page 2 of 2

OUTPUT TITLE: Table of Monthly Temperature and Precipitation of Station

SORT ORDER: Identical to sequence of request parameters

ESTIMATED VOLUME: 1 to 3 copies per request with 1 to 5 pages/copy

COMPUTATIONS/PROCESSES: Computation of average monthly temperatures and precipitation data from recorded values (hourly, daily, etc.) for individual stations.

ACCURACY:

NA

SCALE: NA

ANNOTATIONS: NA

LEGEND:

NA

REMARKS:

None

- - AO-13
(0004)
(0690)
(7306)

TABLE OF MONTHLY TEMPERATURE AND PRECIPITATION BY STATION

COLORADO
SEPTEMBER 197

TEMPERATURE (5377) PRECIPITATION (5377)

STATION (4914)	TEMPERATURE: AVERAGE MAXIMUM	TEMPERATURE: AVERAGE MINIMUM	TEMPERATURE: AVERAGE	TEMPERATURE: DEPARTURE FROM NORMAL	TEMPERATURE: HIGHEST	TEMPERATURE: DATE	TEMPERATURE: LOWEST	TEMPERATURE: DATE	TEMPERATURE: DEGREE DAYS	NO. OF DAYS MAX.: 90° OR ABOVE	NO. OF DAYS MAX.: 32° OR BELOW	NO. OF DAYS MIN.: 32° OR BELOW	NO. OF DAYS MIN.: 0° OR BELOW	PRECIPITATION: TOTAL	PRECIPITATION: DEPARTURE FROM NORMAL	PRECIPITATION: GREATEST DAY	PRECIPITATION: DATE	SNOW, SLEET: TOTAL	SNOW, SLEET: MAX. DEPTH ON GROUND	SNOW, SLEET: DATE	NO. OF DAYS: .10 OR MORE	NO. OF DAYS: .50 OR MORE	NO. OF DAYS: 1.00 OR MORE
• • • ARKANSAS DRAINAGE BASIN 01 (5304)																							
BRANSON																							
BUENA VISTA																							
CANON CITY	74.4M	47.7	61.1M	- 6.1	93	11	31	27	161	5	0	1	0	2.29	1.54	1.56	28	.0	0		3	1	1
CLIMAX	66.6M	29.5M	43.1M		67	10	17	28	652	0	0	24	0	.54		.17	17	2.4	1	17	3	0	0
COLORADO SPRGS WSO AP	71.4	44.5	58.0	- 2.9	90	10	32	28	229	1	0	1	0	.43	- .68	.32	27	T	0		1	0	0
DELHI	81.7	45.4	63.6		97	10+	32	28	96	6	0	1	0	.41		.28	28	.0	0		1	0	0
EADS	79.4	44.6	62.0	- 4.0	101	10	33	28	138	6	0	0	0	.04	- 1.14	.04	28	.0	0		0	0	0
FORDER 8 S	78.7M	41.3M	60.0M		90	10	32	28+	170	6	0	2	0	.44		.44	28	.0	0		1	0	0
HOLLY	78.2	45.4	61.8		100	11	32	3	138	8	0	1	0	.04		.04	28	.0	0		0	0	0
JOHN MARTIN DAM	83.6	46.8	65.2	- 2.6	100	10	34	3	82	9	0	0	0	.00	- .92	.00		.0	0		0	0	0
KIT CARSON	80.5	43.3	61.9	- 2.6	100	10	33	3	138	7	0	0	0	.14	- 1.11	.10	28	.0	0		1	0	0
LA JUNTA FAA AP	81.0	49.4	65.2		101	10	38	28	77	6	0	0	0	.12		.10	27	.0	0		1	0	0
LAMAR	79.1	47.6	63.4	- 3.7	99	10	37	3	112	6	0	0	0	.03	- 1.06	.03	27	.0	0		0	0	0
LAS ANIMAS	80.8	47.3	64.1	- 3.5	100	10	35	3	94	7	0	0	0	.05	- .89	.05	28	.0	0		0	0	0
LEADVILLE	60.8	27.0	43.9	- 4.8	72	9	15	28	629	0	0	26	0	.44	- .78	.20	15	.4	T	28	1	0	0
LIMON WSMO	72.7	39.8	56.3		92	10	29	30	272	2	0	3	0	.44		.25	27	.0	0		2	0	0
NORTH LAKE	67.0	33.6	50.3		81	8	18	28	431	0	0	13	0	1.36	.07	.46	16	T	T	27	4	0	0
PALMER LAKE	71.4M	39.6M	55.5M		89	11	26	13+	295	0	0	5	0	.94		.33	28	3.0	0		4	0	0
PUEBLO WSO AP //R	78.1	48.5	63.3	- 2.9	97	10	37	29	103	5	0	0	0	.65		.53	27	.0	0		1	1	0
PUEBLO 6 SSW	70.0	41.7	55.9		94	11	32	29+	310	5	0	3	0	1.14		.78	28	.0	0		3	1	0
ROCKY FORD 2 SE	80.7	45.4	63.1	- 3.2	96	10	34	29+	109	6	0	0	0	.21	- .82	.14	28	.0	0		1	0	0
RUXTON PARK	60.8	30.3	45.6		76	10	18	28	577	0	0	23	0	1.21		.60	28	6.0	0		6	1	0
RYE	72.2	36.9	54.6		85	11	25	28	306	0	0	5	0	1.88		.90	28	.0	0		3	2	0
SALIDA 3 W	72.7	30.5	55.6		85	8	24	28	277	0	0	3	0	.24		.24	15	.0	0		1	0	0
SPRINGFIELD 7 WSW //	76.2	46.9	61.6		96	10	35	3	155	4	0	0	0	.12		.09	14	.0	0		0	0	0
SUGARLOAF RSVR 1 ESE	63.4	26.2	44.8		74	10	13	30	599	0	0	28	0	.55		.37	16	T	T	13	1	0	0
TACONY 10 SE	78.2	44.6	61.4		99	10	34	28	156	6	0	0	0	.53		.48	28	T	0		1	0	0
TRINIDAD	74.9	43.5	59.2		89	9	28	28	192	0	0	1	0	1.19		.52	28	.0	0		5	1	0
TRINIDAD FAA AP	74.9	46.1	60.5	- 3.9	92	9	31	28	174	4	0	2	0	.61	- .36	.38	27	.5	T	28	2	0	0
TWIN LAKES RESERVOIR	62.2	29.6	45.9		73	10+	17	30	562	0	0	24	0	.46		.33	15	.0	0		2	0	0
TWO BUTTES																							
VICTOR																							
WALSENBURG POWER PLANT	75.9	42.1	69.0	- 4.5	89	9+	28	28	194	0	0	2	0	1.03	.12	.47	28	.0	0		4	0	0
WALSH																							
WESTCLIFFE	70.5	33.1	51.8	- 2.9	84	9	21	29	387	0	0	14	0	1.77	.81	1.04	15	1.0	0		4	1	1
WETMORE 9 S	66.9	39.7	53.3		82	10+	25	28	345	0	0	4	0	1.94		.46	28	2.0	0		7	0	0
DIVISION			57.1	- 4.6										.71	- .39			.5					
• • • COLORADO DRAINAGE BASIN 02																							
ALTENBERN	77.1	39.7	68.4		90	9	27	29+	193	1	0	3	0	1.36		.60	15	.0	0		4	1	0
ASPEN	70.0	35.9	53.0	- .5	60	9+	24	28	358	0	0	9	0	1.02	- .48	.44	15	T	0		3	0	0
BERTHOUD PASS	50.7	29.3	40.0		66	10	16	28	743	0	1	22	0	1.06		.60	12	14.6	5	12	5	1	0
BOND	78.8	28.2	53.5		94	11	16	25	338	1	0	27	0										
BROWNS PARK REFUGE	79.4M	32.1M	55.0M		51	10	20	28	272	2	0		0	.41		.33	12	.0	0		1	0	0
CEDAREDGE	77.2	45.4	61.3	- .8	89	8	32	28	141	0	0	1	0	.60	- .46	.38	15	.0	0		3	0	0
CIMARRON	77.0	32.1	64.6		88	18+	16	29	306	0	0	16	0	1.27		1.02	18	.0	0		2	1	1
COCHETOPA CREEK	72.2	29.4	50.8		83	10	14	29	420	0	0	20	0	.55		.40	16	.0	0		1	0	0
COLLBRAN 2 SW																							
COLORADO NAT MON	81.4	62.9	67.2	.7	92	9	41	28	48	4	0	0	0	.31	- .60	.19	14	.0	0		2	0	0
CORTEZ	78.7M	44.9M	61.8M	- .4	90	9	29	30	122	1	0		0	.71	- .45	.30	14	.0	0		2	0	0
CRAIG	74.1	34.5	54.3	- 1.8	87	9	21	29+	321	0	0	8	0	.47	- .62	.42	11	.0	0		1	0	0
CRESTED BUTTE	65.1	27.6	46.4	- 3.3	76	8	15	29	552	0	0	25	0	.78	- .79	.36	15	.0	0		2	0	0
DELTA 3 NW																							
DILLON 1 E	65.4	28.7	47.1	- .6	76	9	19	30	530	0	0	22	0	.67	- .56	.16	16	T	0		3	0	0
DINOSAUR NATL MONUMENT	79.5	44.4	62.0		90	10+	29	13	134	2	0	3	0	.22		.08	14+	.0	0		0	0	0
DURANGO	78.9M	39.6M	69.3M	.7	90	9	25	29+	167	1	0		0	1.11	- .48	.65	15	.0	0		2	1	0
EAGLE FAA AP	75.9	33.5	54.7	- .9	87	10+	21	29	302	0	0	12	0	.58	- .48	.18	11	.0	0		3	0	0
FORT LEWIS	72.7M	36.7M	54.7M	- .6	84	9	25	29	302	0	0	4	0	.91	- .70	.66	14	.0	0		2	1	0
FRASER																							
FRUITA	82.9	43.4	63.2	- .6	95	9	29	29	100	9	0	3	0	.21	- .54	.07	16	.0	0		0	0	0
GATEWAY 1 SW	84.5M	43.0	63.8M		96	10+	28	28	103	9	0	4	0	.82		.67	14	.0	0		2	1	0
GLENWOOD SPRINGS 1 N																							
GRAND JUNCTION WSO AP //R	92.4	50.4	66.4	- .8	96	9	37	28	60	6	0	0	0	.38	- .46	.18	15	.0	0		2	0	0
GRAND JUNCTION 6 ESE	81.1	51.1	66.1		92	10	35	28	58	5	0	0	0	.32		.20	15	.0	0		1	0	0
GRAND LAKE 1 NW	66.1	26.2	46.2	- 2.0	76	9	17	30+	558	0	0	27	0	1.94	.41	.80	14	.0	0		4	2	0
GRAND LAKE 6 SSW	64.8	30.6	47.7		74	10+	21	30	513	0	0	23	0	.91		.55	12	1.0	0		2	1	0
GRAND VALLEY	84.0	42.2	63.1		94	9+	29	28	98	8	0	3	0	1.04		.56	12	.0	0		4	1	0
GREEN MOUNTAIN DAM	70.5	33.2	51.9	- 2.2	81	9	24	30	380	0	0	16	0	.97	- .32	.41	12	.0	0		3	0	0
GUNNISON	72.2	28.9	50.6	- 1.6	83	9	14	30	425	0	0	22	0	.46	- .45	.35	15	.0	0		1	0	0
HAYDEN	75.2	35.0M	55.1M	- .6	87	10+	23	28	295	0	0	7	0	.30	- .89	.19	12	T	0		1	0	0
HOT SULPHUR SPRS 2 SW	71.3M	24.5	47.9M		81	10+	12	30	601	0	0	25	0	.92		.54	12	.0	0		2	1	0
IGNACIO 1 N	78.5	38.1	58.3	- .4	91	10	21	30	197	1	0	4	0	.91	- .38	.32	15	.0	0		3	0	0
INDEPENDENCE PASS 5 SW	59.6	27.6	43.6		69	9	17	30+	634	0	0	25	0	.87		.32	27	4.0	0		4	0	0
KREMMLING	M	M	M							0	0		0	.62		.37	12	.0	0		2	0	0

SEE REFERENCE NOTES FOLLOWING STATION INDEX

105-180

Prog. Area: Watershed-Air
Prep. By: G. Lipscomb
Date: 26 July 77

AO-14

OUTPUT DESCRIPTION
Page 1 of 2

OUTPUT TITLE: Table of Total Monthly Precipitation by station

OUTPUT FORM: Printout/Data Display

OUTPUT DESCRIPTION: A table summarizing monthly precipitation totals by years for climatological stations (See Attached).

USER(s): Meteorologist; Hydrologist; Natural Resource Specialist; Air Resource Specialist; Planners; etc.

LOCATION(s): SO's; DO's; RAH's; etc.

USAGE:
As input to URA, EAR's, ES's; activity plans and project design.

ACCESS LIMITATIONS: None

RESPONSE TIMES: DESIRED: 1 to 3 days REQUIRED: 1 week

FREQUENCY OF PRODUCTION: Monthly for RAH/DO Specialists to annually for others.

DEPENDENCIES:
None

REQUEST PARAMETERS: State Administrative (100-0004) or State, Geographic (100-0690); District, Administrative (100-0543); Name, Climatological Station (143-4914)

WS-181

AO-14

OUTPUT DESCRIPTION
Page 2 of 2

OUTPUT TITLE: Table of Total Monthly Precipitation by Station

SORT ORDER: Identical to sequence of request parameters

ESTIMATED VOLUME: 1 to 3 copies per request with 1 to 10 pages/copy

COMPUTATIONS/PROCESSES:

Computation of monthly and annual average precipitation data from recorded values (hourly, daily, etc.) for individual stations.

ACCURACY: NA

SCALE: NA

ANNOTATIONS: NA

LEGEND:

NA

REMARKS:

None

WS-182

STATE: (0004) (0690)
DISTRICT: (0543)

AO-14

TABLES OF TOTAL MONTHLY PRECIPITATION BY STATION

(7308)

BALLANTINE (4914)

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANN
1951	.41	.53	.73	.47	2.34	1.81	.75	5.29	.90	1.19	.23	1.03	13.48
1952	.20	.71	.17	.67	2.44	1.52	.75	.57	.06	.33	.41	.14	7.77
1953	.51	.85	.91	1.43	2.57	1.80	.74	.53	.81	.75	.26	.13	11.29
1954	.87	.31	1.58	.71	1.22	1.65	.24	.80	.58	.57	.00	.05	8.53
1955	T	.77	.62	1.53	3.73	2.42	1.15	.19	.31	1.15	.57	1.21	15.63
1956	.64	.18	.10	.58	1.69	1.41	.95	1.53	.35	.19	1.05	.29	8.96
1957	.51	.33	1.02	2.42	3.16	3.28	.22	1.94	.79	.71	1.13	.00	15.41
1958	.31	1.04	.74	.75	.47	3.47	2.43	.47	.16	.58	1.00	1.07	12.47
1959	.56	.97	.50	2.07	1.54	1.07	.15	.05	1.31	.65	.88	.23	9.76
1960	.67 E	.37	.43	1.44	1.28	1.89	.21	.74	.23	.22	.26	.77	7.91
PERIOD	.43	.59	.66	1.71	2.04	2.01	.76	1.01	.55	.63	.58	.49	10.93
YEARS	10	10	10	10	10	10	10	10	10	10	10	10	
RECORD	.43	.42	.73	1.09	1.73	2.36	.95	.86	1.13	.88	.56	.49	11.65
YEARS	41	41	41	42	42	42	42	42	42	42	42	42	
NORMAL	.42	.48	.80	1.01	1.68	2.53	.84	.89	1.04	.89	.52	.48	11.58

P
FROM
(5377)
(5376)

BARBER

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANN
1951	.23	.78	.49	.82	1.81	1.61	1.32	3.84	1.43	1.65	.11	.83	14.92
1952	.79	.52	.17	.14	3.59	1.80	1.45	1.03	.75	.57	.11	.12	11.04
1953	.26	.75	.14	.86	1.98	2.01	.45	1.56	.08	.05	.06	.11	8.11
1954	1.09	.17	1.14	.96	.94	3.65	.48	1.56	1.41	.58	.01	.00	11.99
1955	.02	.44	.53	.24	3.38	2.15	1.50	.04	.60	.20	.61	1.33	11.06
1956	.55	.16	.09	1.35	2.61	1.38	.77	1.02	.27	.24	.17	.31	8.92
1957	.73	.21	.91	.96	2.55	4.63	1.28	1.04	1.05	1.50	.47	.02	15.35
1958	.14	.85	.36	.68	.46	4.15	2.17	.30	.45	.25	.54	1.13	11.48
1959	.30	.92	.34	.67	2.44	2.56	1.05	.45	2.51 E	.78 E	1.01	T	13.03
1960	.11	.04	.07	1.61	1.70	1.10	1.70	1.65	.47	.21	.34	.12	9.12
PERIOD	.42	.48	.43	.83	2.15	2.50	1.22	1.23	.90	.60	.34	.40	11.50
YEARS	10	10	10	10	10	10	10	10	10	10	10	10	
RECORD	.37	.44	.59	.74	2.12	3.00	1.27	1.22	1.23	.63	.45	.39	12.45
YEARS	20	20	20	20	20	20	20	20	20	20	20	20	

BASIN

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANN
1951	1.07	-	-	-	-	-	-	-	-	1.46	.71	1.27	-
1952	.24	.58	.86	.50	3.19	2.21	1.30	1.24	.38	.02	.55	.44	11.41
1953	1.27	.82	.28	.59	2.24	5.79	.33	1.37	.52	.25	.52	.72	12.68
1954	1.05	.13	.57	1.03	.62	2.92	1.02	1.88	.35	.56	.06	.23	10.40
1955	.28	.21	.84	1.74	.99	2.12	3.42	.54	.76	.60	1.58	1.90	14.98
1956	.82	.20	.34	1.63	1.93	1.26	1.69	1.52	.35	1.25	.35	.43	11.77
1957	.81	.45	.98	1.28	3.40	1.77	.96	1.40	1.00	1.05 E	.55 E	.49	14.14
1958	.51	1.80	1.26	.80	1.70	4.55	.69	.76	1.09	1.65	1.21	1.21	17.21
1959	.72	1.34	.29	.60	2.27	5.36	.50	1.50	2.47	1.37	1.08	.17	15.75
1960	.29	.66	1.21	1.10	1.71	.59	1.01	2.84	.63	.68	.81	.53	12.06
PERIOD	.71	.68	.75	1.01	2.01	2.51	1.21	1.46	.84	.89	.74	.74	13.56
YEARS	10	9	8	9	9	9	8	9	9	10	10	10	
RECORD	.76	.68	.83	1.03	1.91	2.47	1.27	1.36	.92	.90	.83	.75	13.69
YEARS	11	10	10	10	10	10	11	11	11	12	12	12	

BELFRY 8 SSW

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANN
1951	-	-	-	-	-	-	-	-	.52	.72	.05	.46	-
1952	-	-	.07	.10	5.09	1.47	.11	1.14	.30	T	.59	.05	-
1953	T	.30	T	.49	1.42	.19	.18	1.13	.30	.16	.10	.37	4.64
1954	.59	.05	.17	.06	.55	.54	.87	.35	.27	.54	T	.00	5.77
1955	.02	.38	.13	.01	1.18	1.74	.48	.18	.51	.24	.34	.43	5.64
1956	T	.02	.46	.56	1.22	1.11	.31	.60	.36	.01	.01	T	4.66
1957	.03	.34	.03	1.11	2.01	2.74	.48	.88	.31	.78	.59	T	9.30
1958	.12	.10	T	.92	.07	1.05	1.71	T	T	T	.53	.06	4.54
1959	.01	.34	.27	.18	T	1.04	.05	.09	.50	.92 E	.84	T	4.04
1960	.05	.13	.02	.22	.24	.02	T	1.74	.02	.13	.24	.09	2.97
PERIOD	.10	.21	.15	.41	1.30	1.10	.47	.68	.29	.34	.33	.15	5.51
YEARS	8	8	9	9	9	9	9	9	10	10	10	10	

BELGRADE AP

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANN
1951	.29	.44	.89	1.61	1.79	1.11	.50	2.04	1.48	2.22	.29	1.15	15.81
1952	.92	.65	1.06	.30	4.47	1.65	2.14	.50	.36	.12	.70	.44	13.85
1953	.55	1.00	.67	1.63	2.46	2.95	.25	.32	.72	.54	.65	.26	11.98
1954	.78	.18	1.05	.59	.89	3.14	.75	1.28	.58	.52	.01	.12	9.99
1955	.51	.37	1.30	1.77	2.18	2.51	1.11	.11	1.22	1.64	.78	1.97	15.47
1956	.89	.16	.51	1.10	1.68	1.07	.52	1.12	.74	.70	.32	.33	9.14
1957	.63	.23	1.16	.57	2.26	2.71	.58	.21	.62	1.22	.29	.24	10.52
1958	.32	.65	.85	.77	.96	1.98	1.78	1.40	1.33	.32	.64	.49	11.49
1959	.34	.67	.67	.71	2.61	1.94	1.68	.46	1.80	1.38	.49	.14	12.89
1960	.42	.27	.97	2.02	1.50	1.20	.31	1.67	.07	.44	.30	.34	9.51
PERIOD	.57	.46	.92	1.16	2.07	2.03	.94	.91	.89	.91	.45	.55	11.86
YEARS	10	10	10	10	10	10	10	10	10	10	10	10	
RECORD	.61	.45	.92	1.16	1.94	2.60	1.10	1.02	1.41	.85	.75	.59	13.40
YEARS	20	20	20	20	20	20	20	20	20	20	20	20	

BELLTOWER

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANN
1951	.77	.38	.40	.17	2.53	2.41	2.08	2.80	1.62	1.88	.02	.74	13.61
1952	.42	.45	.89	T	1.92	3.05	2.11	1.14	.20	T	.01	.10	10.27
1953	.50	.80	1.15	1.48	2.19	4.40	1.98	2.22	T	.44	.53	.10	15.79
1954	.24	.23	2.04	.60	.85	3.37	.55	4.03	.63	.49	.28	.00	13.51
1955	.15	.29	.31	.75	3.74	.51	.56	T	.77	.14	.35	.63	8.20
1956	.74	.48	.39	.61	3.23	.92	3.43	1.96	.10	T	.36	.03	12.25
1957	.06	.09	.09	.54	1.55	3.28	2.11	2.07	1.35	.67	.07	T	11.88
1958	.02	.52	.36	1.06	.46	3.02	.95	.79	.03	.59	.10	.15	8.03
1959	.42	1.95	.22	.55	1.53	2.79	1.29	.67	2.57	.44	1.30	.06	13.79
1960	.13	.78	.44	.07	1.77	4.67	.77	1.66	.63	T	.42	.55	11.59
PERIOD	.55	.60	.63	.58	1.96	2.84	1.58	1.73	.79	.47	.34	.23	12.10
YEARS	10	10	10	10	10	10	10	10	10	10	10	10	
RECORD	.37	.58	.63	.58	1.96	2.74	1.51	1.55	.84	.58	.50	.22	11.86
YEARS	11	11	10	10	10	11	12	12	12	12	12	12	

BIDDLE

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANN
1031	.05	.04	.49	.03	.94	1.35	2.98	2.31	1.23	1.16	.35	-	-
1952	[illegible]	.30	.57	.00	2.48	3.09	2.13	.48	.00	.00	.06	.00	8.13
1953	.65	.34	.06	1.61	1.65	4.71	.38	1.64	.51	.37	.48	.02	12.42
1954	.08	.15	1.29	.17	.62	1.69	.35	1.42	.31	.66	.15	.00	6.87
1955	.18	.69	.11	.37	5.04	2.09	.94	.59	1.20	.55	.84	.33	11.85
1956	.27	.00	.20	.33	2.23	1.25	2.74	.53	.50	.00	.52	.00	8.37
1957	.00	.35	.53	2.76	1.74	4.74	.72	1.98	1.39	1.61	.00	.00	15.82
1958	.17	.07	.00	2.16	1.16	3.31	1.05	.00	.33	.93	.50	.80	10.48
1959	.50	.90	.00	.57	1.83	2.47	.74	1.01	2.08	.00	.62	.13	10.65
1960	.00	.45	.40	.10	.71	3.33	.41	1.56	.38	.00	.25	.59	8.18
PERIOD	.22	.33	.55	.79	1.75	2.80	1.24	1.15	.77	.53	.38	.21	10.50
YEARS	10	10	10	10	10	10	10	10	10	10	10	9	
RECORD	.22	.53	.35	.79	1.73	2.80	1.26	1.14	.76	.49	.36	.19	10.42
YEARS	10	10	10	10	10	10	11	11	11	11	11	10	

BIGFORK 12 S

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANN
1951	1.52	1.39	.70	2.81	3.37	3.03	1.65	2.14	2.20	4.22	1.37	4.39	28.79
1952	1.51	1.58	1.20	.46	2.35	4.52	.46	1.18	.77	.22	.81	1.36	16.10
1953	1.99	1.75	1.07	2.30	3.26	2.55	.07	1.08	.97	.20	1.55	1.42	18.19
1954	2.61	.98	1.12	1.46	1.38	2.51	3.34	4.55	2.24	.96	1.79	.47	23.41
1955	1.72	1.11	.86	1.78	1.83	2.24	1.82	T	1.85	2.40	2.88	2.79	21.38
1956	2.25	2.09	1.78	1.44	1.82	3.20	2.11	2.13	1.23	1.37	.70	1.33	21.45
1957	2.60	1.49	1.27	1.48	2.35	3.72	1.39	.50	.27	1.92	2.34	1.52	20.85
1958	2.08	3.53	1.39	2.02	3.07	3.50	1.35	.58	2.09	1.17	3.34	3.60	27.72
1959	3.04	.87	1.23	1.66	4.11	2.12	.15	1.31	4.12	3.11	4.72	.51	26.95
1960	1.74	1.03	1.10	1.47	3.56	1.37	.21	3.56	.64	1.84	2.59	1.33	20.24
PERIOD	2.09	1.58	1.17	1.69	2.69	2.86	1.26	1.70	1.64	1.74	2.23	1.87	22.52
YEARS	10	10	10	10	10	10	10	10	10	10	10	10	
RECORD	1.86	1.42	1.15	1.75	2.46	3.18	1.28	1.31	1.58	1.91	2.09	1.92	21.91
YEARS	22	22	22	22	22	22	22	22	22	22	23	25	

WS-183

AO-15

Prog. Area: Watershed-Air
Prep. By: G. Lipscomb
Date: 26 July 77

OUTPUT DESCRIPTION
Page 1 of 2

OUTPUT TITLE: Table of Mean Monthly Temperature by Station

OUTPUT FORM: Printout/Data Display

OUTPUT DESCRIPTION: A table summarizing mean monthly temperature by year for climatological stations (see attached)

USER(s): Meteorologist; Hydrologist; Natural Resource Specialist; Air Resource Specialist; Planners; etc.

LOCATION(s): SO's; DO's; RAH's; etc.

USAGE:
As input to URA, EAR's, ES's, Activity Plans, and Project Design.

ACCESS LIMITATIONS: None

RESPONSE TIMES: DESIRED: 1 to 3 days REQUIRED: 1 week

FREQUENCY OF PRODUCTION: Monthly for RAH/DO specialists to annually for others.

DEPENDENCIES: None

REQUEST PARAMETERS: State, Administrative (100-0004) or State, Geographic (100-0690); District, Administrative (100-0543); Name, Climatological Station (143-4914).

WS-184

AO-15

OUTPUT DESCRIPTION
Page 2 of 2

OUTPUT TITLE: Table of Mean Monthly Temperature by Station

SORT ORDER: Identical to sequence of request parameters

ESTIMATED VOLUME: 1 to 3 copies per request with 1 to 10 pages/copy

COMPUTATIONS/PROCESSES: Computation of mean monthly, and annual temperature data from recorded values (hourly, daily, etc.) for individual stations.

ACCURACY:

NA

SCALE: NA

ANNOTATIONS: NA

LEGEND: NA

REMARKS:

None

WS-185

DISTRICT: (0543)
(0004)
(0690)

TABLE OF MEAN MONTHLY TEMPERATURE By STATION

← (7308) →

← (5381) (4914) (5731)

ALBION 1 N

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANN
1951	16.6M	23.1M	18.3	36.5	53.6	55.4M	69.2M	67.3M	31.8	44.9M	26.3M	11.1M	39.4
1952	13.0	22.7M	20.5M	47.6M	55.5M	65.9M	68.3M	69.6M	62.4	44.9	31.3M	-	-
1953	-	23.7M	33.5	36.0M	-	-	-	68.6M	57.7M	43.8M	35.1M	23.5M	-
1954	10.6M	36.8M	-	40.0M	49.9M	57.4M	75.1M	69.1M	57.3M	-	37.7M	25.3	-
1955	19.6M	13.9	23.2M	45.5M	53.4M	60.1M	72.7M	72.1M	55.4M	46.4M	18.3M	13.8M	41.2
1956	14.9M	13.6M	31.1M	35.3M	32.9M	67.5M	69.1M	66.7M	57.5M	47.3M	28.7M	-	-
1957	4.3M	15.9M	29.7M	32.8M	-	60.3M	73.2M	68.2M	55.5M	47.3M	35.8	32.6M	-
1958	27.7M	20.7M	27.3M	42.0M	58.6M	55.7M	64.3M	69.8M	58.0M	-	29.9M	18.3M	-
1959	13.8M	9.7M	31.2M	38.7M	50.1M	65.6	67.9	71.9	55.0	38.8	22.1M	26.9M	41.0
1960	14.7M	14.0	24.7M	42.8M	52.7M	62.1M	73.4M	67.4M	58.5M	45.2M	-	21.7M	-
PERIOD	14.9	19.7	26.6	40.4	53.4 ?	61.7	70.2	69.1	56.9	45.5	29.5	21.7	42.3
YEARS	9	10	9	10	8	9	9	10	10	8	9	8	
RECORD	14.5	19.2	26.7	41.6	32.7 ?	61.4	70.2	69.0	57.3	46.2	29.8	21.2	42.3
YEARS	14	15	14	15	13	14	14	15	15	13	14	13	

AUGUSTA

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANN
1951	17.5	24.0	20.6	39.6	51.6	52.1	64.3	60.7	51.4	41.1	33.3	16.5	39.4
1952	17.6	27.2	25.6	47.6	53.3	58.7	63.5	63.5	39.0	48.3	31.4	30.9	44.0
1953	33.5	30.9	34.3	36.3	47.4	55.6	66.2	65.3	38.1	51.3	40.9	31.6	46.0
1954	10.2	35.3	24.8	36.6	51.4	54.7	67.7	62.8	54.7	44.6	43.5	33.4M	43.6
1955	26.0	22.2	22.9	41.1	49.2	59.2	83.4	66.5	55.6	50.2	20.6M	24.3	41.6
1956	21.8	24.7	35.1	42.2	52.7	61.3	66.7	63.2	57.5	46.3	38.3	31.0	45.1
1957	9.8	23.7	32.9	41.9	54.6	60.3	67.5	62.8	57.2	40.8	33.8	35.0	43.4
1958	35.2	26.7	28.2	42.5	59.5	57.8	62.1	57.7	55.4	47.7	32.4	28.9M	45.3
1959	21.6	17.4	29.9	41.0	46.6	60.4	66.7	62.7	53.7	43.2	30.1	34.9M	42.8
1960	22.4M	[illegible]	30.3	40.0M	49.6M	59.4	70.1	62.4	53.6M	47.9	33.7	28.7	43.5
PERIOD	21.8	25.9	29.2	40.9	51.6	58.0	65.8	63.6	55.6	45.1	33.8	29.5	43.5
YEARS	10	10	10	10	10	10	10	10	10	10	10	10	
RECORD	21.4	25.8	30.2	41.6	50.4	57.4	64.4	62.5	53.7	45.7	33.3	26.4	42.6
YEARS	61	61	61	61	61	61	61	61	61	61	61	61	
NORMAL	22.2	24.6	30.4	41.8	51.4	57.6	65.7	63.6	55.2	46.4	33.9	27.5	43.4

AUSTIN 1 W

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANN
1951	16.6	23.9	20.5	37.3	49.3	50.5	64.1	57.9	47.9	37.9	31.4	16.3	37.8
1952	18.5	24.7	25.2	43.5	49.5	35.6	67.6	62.5	56.3	48.3	26.3	25.4	41.9
1953	31.8	29.2	34.6	37.1	45.6	53.3	55.9	62.8	56.4	48.3	38.3	29.5	44.4
1954	15.9	35.0	25.4	37.9	48.7	51.4	65.3	59.9	53.7	41.6	39.1	26.3	41.7
1955	21.6	20.0	20.3	36.1	46.0	54.6	60.9	64.2	52.0	46.1	19.7	19.7	38.4
1956	19.9	19.9	30.6	39.8	50.1	56.9	62.7	59.9	55.3	42.6	32.6	29.9	41.7
1957	7.0	23.7	30.2	36.7	51.4	36.9	64.7	61.5	54.6	38.8	30.1	30.7	40.7
1958	28.6	26.7	26.3	39.0	56.7	54.7	60.3	66.4	53.8	46.8	30.6	26.5	43.0
1959	21.7	18.3	33.1	41.0	45.0	58.5	65.0	60.3	51.2	41.8	26.8	29.8	41.0
1960	19.0	21.7	30.7	38.3	47.6	56.8	68.6	59.6	54.9	44.8	32.5	25.7	41.7
PERIOD	20.1	24.3	27.7	39.1	49.0	54.9	64.0	61.3	53.6	43.7	30.9	26.0	41.2
YEARS	10	10	10	10	10	10	10	10	10	10	10	10	
RECORD	20.1	24.3	27.7	39.1	48.7	54.9	63.7	61.4	53.4	43.8	30.6	26.2	41.2
YEARS	10	10	10	10	11	11	11	11	11	11	11	11	

BABB 6 NE

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANN
1951	12.4	17.4	15.6	35.1	46.1	45.6	58.7	53.1	46.7M	35.5	31.0	11.5	34.3
1952	14.2	24.6	23.4	42.6	47.2	52.3	57.6	57.0	54.3	46.3	31.5	29.4	40.0
1953	24.6	28.1	30.4	31.8	45.0M	50.7	58.5M	59.3	51.4M	47.4M	38.6	28.6	41.2
1954	4.7	34.0	22.7	30.5	46.7	50.8	59.0	37.0	48.6	40.3	40.6	31.4	38.9
1955	22.7	17.3	19.6	37.0	42.9	33.7	58.4	-	50.0	45.6	-	19.1M	-
1956	20.3	18.3	27.7	36.9	47.6	54.2	59.2	58.4	51.8	40.0	34.2	23.8	39.5
1957	6.0	16.3	27.5	34.9	48.0	52.1	58.9	56.0	52.4	35.7	29.6	31.1	37.5
1958	32.2	25.2	24.8	38.3	53.6	53.7	58.3	61.5	49.7	45.6	28.2	27.5	41.6
1959	19.9	16.7	31.5	37.1	43.7	54.8	60.2	55.7	48.7	41.2	27.8	32.0	39.1
1960	19.4	21.2	25.9	39.2	46.1	54.2	63.2M	57.8	53.5	43.8	30.8	27.2	40.2
PERIOD	17.7	21.9	24.9	35.3	46.7	52.3	59.2	57.3	30.7	42.2	32.5	26.4	39.0
YEARS	10	10	10	10	10	10	10	9	10	10	9	10	
RECORD	18.4	20.5	26.9	38.2	47.0	53.5	60.2	58.4	50.5	42.5	31.4	23.0	39.2
YEARS	53	53	53	53	53	53	53	52	53	53	52	53	
NORMAL	19.5	20.9	26.6	38.3	47.6	53.2	60.3	58.5	50.9	42.8	31.3	25.1	39.6

BALLANTINE

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANN
1951	19.1	27.2	22.9	42.3	57.7	36.1	72.0	68.3	55.6	44.6	33.5	16.6	43.2
1952	14.4	26.8	32.1	52.0	57.5	67.0	70.8M	71.7	64.0	50.3	32.9	29.2	47.4
1953	33.9	33.0	39.1	41.7	52.3	64.2	74.3	72.2	63.4	54.3	40.5	32.5	30.1
1954	13.3	40.1	29.0	44.1	34.6	62.4	75.8	69.8	60.3	48.6	43.7	31.2	47.7
1955	26.5	21.7	28.2	45.0	56.5	63.4	72.4	73.1	59.7	51.8	23.4	20.1	45.2
1956	17.5	21.5	35.9	42.9	57.0	70.5	72.3	68.7	61.3	50.7	36.7	30.5	47.1
1957	10.4	25.3	33.6M	43.3M	57.7M	63.4M	74.9M	71.9M	58.8M	44.7M	34.5M	35.5M	46.2
1958	33.0	24.5	34.9M	45.8M	54.2M	61.6	57.9M	73.4	60.9M	51.0	36.2	25.6	48.3
1959	19.0	18.6	39.6	44.6M	51.2	67.4M	72.0M	71.5M	58.7	45.9M	28.5M	31.7M	45.7
1960	20.9M	24.4M	35.9M	46.4M	57.6M	66.8M	76.5M	70.0M	61.8M	51.4M	35.1M	27.7M	47.9
PERIOD	20.8	26.3	33.1	44.8	56.7	64.5	72.9	71.1	60.5	49.3	34.5	28.1	46.9
YEARS	10	10	10	10	10	10	10	10	10	10	10	10	
RECORD	21.5	26.3	34.8	46.6	57.0	64.6	72.9	70.5	59.7	48.6	34.7	25.9	46.9
YEARS	41	41	41	41	41	41	41	41	41	41	41	41	
NORMAL	21.8	25.5	34.3	46.9	57.3	64.7	73.0	70.6	60.3	49.5	35.1	27.0	47.2

BARBER

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANN
1951	18.5	25.0	21.6	40.6	53.6	34.1	68.6	64.1	32.6	42.5	32.8	17.3	41.9
1952	16.2	27.3	28.4	48.5	53.7	61.4	55.8	67.1	59.4	47.9	30.7	27.7	44.5
1953	33.1	31.3	37.1	38.7	46.6	39.6	70.3	67.2	59.4	51.2	38.9	30.1	47.1
1954	13.1	39.0	26.0	41.4	31.6	57.4	71.3	65.2	37.6	45.4	42.4	30.3	43.2
1955	24.4	22.4	25.7	42.1	52.7	59.2	68.0	69.6	55.8	49.0	22.8	19.6	42.6
1956	17.0	21.6	33.8	41.2	53.3	64.3	68.7	64.5	56.3	46.6	36.6	50.5	44.7
1957	9.0	25.8	32.6	41.7	54.2	60.5	69.6	67.5	57.1	44.1	34.1	33.0	44.1
1958	31.5	26.3	32.0	42.7	59.7	57.8	63.4	69.4	57.2	48.5	34.5	27.3	45.9
1959	23.0	18.8	37.6	43.0	47.9	62.1	67.9	66.5	55.1	-	-	33.1	-
1960	22.4	24.2	32.4	41.7	51.5M	60.0	69.8	63.1	55.6	46.9M	33.7M	27.3M	44.1
PERIOD	21.0	26.2	30.7	42.2	52.7	59.7	68.3	66.5	56.9	46.9	34.1	27.6	44.4
YEARS	10	10	10	10	10	10	10	10	10	9	9	10	
RECORD	20.6	25.9	30.9	43.4	52.6	59.5	68.0	66.4	56.7	46.4	33.6	26.6	44.2
YEARS	13	15	13	15	15	15	15	15	15	14	14	15	

BELGRADE AP

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANN
1951	15.2	24.2	20.2	40.1M	51.6	52.8	66.1	62.7	50.9	41.2	30.0	16.2	39.3
1952	14.6	19.1	23.2	44.5	51.9	58.7	63.0	64.3	57.5	46.6	24.7	20.9	40.8
1953	33.1	26.3	34.9	38.7	46.9	57.1	68.1	65.7	57.9	48.1	37.0	26.0	45.2
1954	16.9	32.5	25.6	42.3	51.5	55.1	68.7	63.2	55.1	42.3	39.1	21.9	43.0
1955	15.7	17.1	20.4	37.0	49.3	58.0	65.7	67.7	54.5	46.3	20.9	16.3	39.2
1956	14.8	15.7	28.0	41.7	52.6	61.6	66.7	62.1	56.9	44.1	29.7	26.4	41.7
1957	4.1	23.2	30.4	39.2	53.6	59.1	66.7	65.7	55.3	42.6	29.4	29.5	41.6
1958	22.9	26.9	27.5	40.7	58.4	59.0	63.0	67.7	34.3	46.9	31.5	25.3	43.7
1959	22.5	16.5	33.7	41.1	46.7	61.0	66.3	63.5	52.3	43.0	26.1	24.7	41.5
1960	14.0	16.7	27.7	40.5	49.5	59.7	70.9	63.5	55.6	44.1	30.3	20.2	41.1
PERIOD	17.6	21.6	27.2	40.6	31.2	58.2	66.5	64.6	55.1	44.5	29.9	23.1	41.6
YEARS	10	10	10	10	10	10	10	10	10	10	10	10	
RECORD	15.9	21.9	27.6	41.8	50.6	37.2	65.9	64.5	54.6	44.7	30.2	22.3	41.6
YEARS	19	19	19	19	19	19	19	19	19	19	19	19	

BIGFORK 12 S

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANN
1951	25.6	30.9	31.1	44.3	52.1	56.1	67.1	63.9	53.3	42.6	33.7	23.7	43.7
1952	24.5	31.6	34.8	48.2	54.1	58.4	65.7	67.0	60.2	50.4	35.0	31.3	46.6
1953	38.4	34.3	38.9	42.2	50.5	56.5	68.9	66.5	60.3	50.2	40.2	34.9	46.5
1954	23.3	34.4	32.2	41.6	33.5	56.1	66.0	62.3	55.0	43.7	40.6	31.9	45.3
1955	28.7	26.2	28.4	40.0	46.8	61.0	63.8	67.0	55.6	46.4	26.9	26.5	43.6
1956	27.7	23.7	33.8	45.3	54.3	59.2	67.1	64.3	57.9	45.6	34.1	32.3	45.3
1957	15.7	27.5	34.4	44.5	37.0	60.4	66.4	64.9	59.2	42.3	35.6	36.1	45.4
1958	31.9	33.5	36.0	44.4	50.7	61.4	65.7	70.6	56.9	46.4	35.0	31.0	47.6
1959	27.6	26.5	37.0	44.4	46.5	59.8	67.0	63.0	53.3	45.9	29.9	31.2	44.5
1960	23.7	28.9	34.8	44.3	50.1	60.0	71.9	62.0	57.8	47.2	36.4	26.6	45.5
PERIOD	26.9	29.8	34.1	44.0	53.0	58.9	67.0	65.2	57.0	46.1	34.6	30.6	45.6
YEARS	10	10	10	10	10	10	10	10	10	10	10	10	
RECORD	26.2	29.8	35.2	45.2	53.3	59.1	67.5	65.9	57.1	47.0	35.3	31.0	46.1
YEARS	21	21	21	21	21	21	21	21	21	21	21	21	

115-116

A0-15

Prog. Area:	Watershed-Air
Prep. By:	G. Lipscomb
Date:	26 July 77

AO-16

OUTPUT DESCRIPTION
Page 1 of 2

OUTPUT TITLE: Table of Total Monthly Snowfall by Station

OUTPUT FORM: Printout/Data Display

OUTPUT DESCRIPTION: A table summarizing total monthly snowfall by year for climatological stations (See attached).

USER(s): Hydrologist; Meteorologist; Natural Resource Specialist; Air Resource Specialist; Planners; etc.

LOCATION(s): SO's; DO's; RAH's; etc.

USAGE:

As input to URA, EAR's, ES's, Activity Plans, and Project Design.

ACCESS LIMITATIONS: None

RESPONSE TIMES: DESIRED: 1 to 3 days REQUIRED: 1 week

FREQUENCY OF PRODUCTION: Monthly for RAH/DO specialists to annually for others.

DEPENDENCIES:

None

REQUEST PARAMETERS: State, Administrative (100-0004) or State, Geographic (100-0690); District, Administrative (100-0543); Name, Climatological Station (143-4914)

WS-187

AO-16

OUTPUT DESCRIPTION
Page 2 of 2

OUTPUT TITLE: Table of Total Monthly Snowfall by Station

SORT ORDER: Identical to sequence of request parameters

ESTIMATED VOLUME: 1 to 3 copies per request with 1 to 10 pages/copy

COMPUTATIONS/PROCESSES: Computation of total monthly snowfall data from recorded values (hourly, daily, etc.) for individual stations.

ACCURACY: NA

SCALE: NA

ANNOTATIONS: NA

LEGEND: NA

REMARKS: None

WS-188

STATE: (0004) (0690)
DISTRICT: (0543)

TABLE OF TOTAL MONTHLY SNOWFALL BY STATION

MONTANA

(7308) ⟶

AUGUSTA (4914)

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANN
1951	3.5	12.2	11.4	7.7	15.0	2.0	T	T	2.0	14.7	6.7	18.8	94.0
1952	2.0	13.8	12.0	2.9	.0	.0	.0	.0	T	5.0	13.8	1.0	50.5
1953	3.0	17.1	10.0	16.1	1.0	.0	T	.0	.0	.0	T	6.4	53.6
1954	22.6	2.5	15.6	17.1	.3	.0	T	.0	15.7	2.0	T	T	75.8
1955	3.2	2.0	-	-	-	.0	.0	.0	.0	.0	-	-	-
1956	-	-	-	-	-	.0	.0	.0	.0	-	-	-	-
1957	-	-	-	-	.0	.0	.0	.0	-	-	-	-	-
1958	-	-	-	-	.0	.0	.0	.0	.0	.0	-	-	-
1959	-	-	-	-	-	.0	.0	.0	.0	-	-	-	-
1960	-	-	-	-	-	.0	.0	.0	.0	.2	5.8	.7	-
PERIOD	[illegible]	9.5	-	-	2.7	.2	T	T	2.0	3.1	5.3	5.0	-
YEARS	[illegible]	5	4	4	6	10	10	10	9	7	5	5	
RECORD	7.8	6.6	9.9	8.8	2.0	.3	T	.1	2.9	4.5	7.1	6.9	54.7
YEARS	53	53	52	52	54	58	58	58	57	55	53	53	

P FROM (5377) (5376)

BASS 6 NE

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANN
1951	12.0	31.0	27.5	18.0	2.5	-	1.5	1.0	10.5	56.0	2.5	28.0	-
1952	5.5	19.0	8.0	6.0	.0	.0	.0	T	T	5.0	24.5	2.0	70.0
1953	26.6	30.0	33.8	36.0	5.5	.0	.0	.0	.0	2.0	3.0	19.0	155.9
1954	44.0	21.0	34.0	43.5	.0	.0	.0	.0	7.0	-	1.0	T	-
1955	2.3	-	-	9.0	-	.0	.0	.0	3.0	1.0	-	-	-
1956	-	-	-	-	-	.0	.0	.0	.0	-	T	-	-
1957	-	-	-	-	.0	.0	.0	.0	-	-	-	-	-
1958	-	-	-	-	.0	.0	.0	.0	2.0	.0	-	-	-
1959	-	-	-	-	-	.0	.0	.0	.0	-	-	-	-
1960	-	-	-	-	-	.0	.0	.0	.0	.0	2.0	-	-
PERIOD	18.1	-	-	22.1	1.3	.0	.2	.1	2.5	7.3	5.5	-	-
YEARS	5	4	4	5	6	9	10	10	9	6	6	4	
RECORD	13.6	12.0	13.0	12.2	4.6	.2	T	.1	4.8	9.6	11.5	12.3	93.9
YEARS	44	43	43	44	45	48	49	49	48	45	45	43	

681-5177

BELGRADE AP

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANN
1951	6.2	8.5	17.8	11.5	4.0	T	.0	T	2.4	7.9	3.6	17.3	79.2
1952	15.5	9.0	10.7	2.4	4.8	.0	T	.0	T	.0	8.5	6.0	56.9
1953	4.5	13.4	4.8	4.5	1.6	T	.0	T	.0	2.0	2.9	4.0	37.7
1954	21.5	1.0	13.2	1.8	.2	T	T	.0	.6	T	.3	3.0	41.6
1955	7.2	8.7	20.0	16.7	2.0	.0	T	.0	T	4.3	10.7	18.8	88.4
1956	10.8	1.9	7.8	1.9	5.5	.0	.0	.0	.0	3.1	3.1	6.4	40.3
1957	12.4	2.3	10.0	2.3	5.0	.0	.0	.0	T	4.9	3.0	4.0	43.9
1958	3.7	9.9	7.0	3.4	.0	.0	.0	.0	1.0	.3	2.3	9.5	37.1
1959	5.7	15.2	4.1	4.4	.5	.0	.0	.0	2.3	1.2	12.2	4.1	49.7
1960	13.0	5.4	7.4	9.3	.3	T	.0	.0	.0	T	.6	5.5	41.5
PERIOD	10.1	7.5	10.3	5.8	2.4	T	T	T	.6	2.4	4.7	7.9	51.7
YEARS	10	10	10	10	10	10	10	10	10	10	10	10	
RECORD	10.9	7.6	11.4	4.5	1.7	.1	T	T	.9	1.8	6.6	9.0	54.3
YEARS	19	19	19	19	20	20	20	20	20	20	20	20	

BILLINGS WB AIPPORT

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANN
1951	9.6	13.1	14.5	6.1	5.4	T	.0	T	T	8.7	2.8	15.8	76.0
1952	6.5	9.9	3.9	4.0	T	.0	.0	.0	T	1.0	2.8	2.1	30.0
1953	3.5	5.2	8.1	5.6	3.7	T	.0	T	T	T	T	2.9	33.0
1954	20.2	.5	27.1	10.9	3.4	.0	.0	T	T	8.6	T	1.0	71.8
1955	1.1	22.3	18.5	42.3	T	T	1.0	.0	T	5.0	8.9	28.8	127.9
1956	8.2	7.4	4.9	12.8	6.7	.0	.0	.0	.0	3.6	8.7	5.8	58.1
1957	9.0	6.8	18.7	6.5	.0	.0	.0	.0	3.6	9.2	8.2	.3	62.3
1958	4.4	19.2	8.3	13.1	.0	.0	.0	.0	.0	T	8.2	14.5	67.7
1959	10.1	13.2	3.1	11.3	.0	.0	.0	.0	T	1.8	21.9	3.9	65.3
1960	10.1	7.9	5.1	4.8	T	.0	.0	.0	.0	T	3.6	7.5	38.9
PERIOD	8.3	11.0	11.0	11.7	1.9	T	.1	T	.8	3.8	8.5	8.3	63.2
YEARS	10	10	10	10	10	10	10	10	10	10	10	10	
RECORD	7.4	9.7	10.2	7.2	1.2	.1	T	T	.6	3.1	6.2	8.0	53.7
YEARS	26	26	26	26	26	26	26	26	26	26	26	26	

BROADUS

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANN
1951	4.9	4.3	5.3	1.8	.0	.5	.0	.0	.0	15.0	3.8	9.0	42.4
1952	1.3	T.3	8.3	T	T	.0	.0	-	-	.0	T	.3	-
1953	5.5	9.4	8.1	7.5	2.0	.0	.0	.0	.0	.0	5.0	1.9	39.4
1954	7.4	.5	16.8	T	.4	.0	.0	.0	T	7.0	2.4	.3	34.8
1955	4.7	16.3	7.0	5.9	.0	.0	T	.0	.0	T	7.9	8.4	48.2
1956	3.2	1.9	5.3	2.8	.0	.0	.0	.0	.0	.0	13.4	3.3	29.7
1957	4.2	6.0	5.0	3.8	.0	.0	.0	.0	.0	1.0	3.0	1.0	23.8
1958	6.7	12.0	2.5	2.2	.0	.0	.0	.0	.0	2.0	8.5	8.7	42.6
1959	3.5	9.0	1.5	11.0	.0	.0	.0	.0	.0	.0	11.4	.3	36.7
1960	7.0	8.1	1.8	.0	.0	.0	.0	.0	.0	T	3.0	9.9	29.8
PERIOD	4.8	7.5	6.0	3.5	.2	.1	T	.0	T	2.3	5.8	4.1	34.3
YEARS	10	10	10	10	10	10	10	9	9	10	10	10	
RECORD	6.0	5.5	6.3	2.9	.6	.1	T	.0	.1	1.8	5.2	4.4	32.9
YEARS	22	22	22	22	22	22	22	21	21	22	22	22	

BROWNING

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANN
1951	-	22.0	25.0	9.0	5.0	11.0	.0	.0	-	-	2.5	-	-
1952	10.0	-	6.0	-	.0	.0	.0	.0	.0	2.0	-	-	-
1953	-	17.0	-	23.7	T	.0	.0	.0	T	T	.7	15.8	-
1954	30.2	-	21.5	33.0	.0	.0	.0	.0	1.5	3.0	1.0	5.0	-
1955	.8	27.0	21.0	3.0	14.0	.0	.0	.0	T	5.0	12.0	-	-
1956	-	-	-	-	7.0	.0	.0	.0	.0	-	2.0	11.0	-
1957	-	24.0	4.0	3.0	.0	.0	.0	.0	5.0	7.0	T	1.0	-
1958	-	-	-	1.0	.0	.0	.0	.0	4.0	1.0	-	15.0	-
1959	-	-	-	4.0	T	.0	.0	.0	T	9.0	-	-	-
1960	-	-	-	31.0	-	.0	.0	.0	.0	-	1.0	8.0	-
PERIOD	-	-	15.5	13.5	2.9	1.1	.0	.0	1.2	3.8	2.7	8.9	-
YEARS	3	4	5	8	9	10	10	10	9	7	7	8	
RECORD	8.4	8.3	10.3	7.7	3.5	.6	T	.1	3.3	5.4	7.9	9.2	64.7
YEARS	30	51	52	55	56	57	57	37	56	54	54	53	

BUSBY

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANN
1951	9.5	2.4	16.8	4.5	.0	3.0	.0	T	.0	5.3	4.9	13.8	82.0
1952	1.3	9.2	6.7	1.5	.0	T	.0	.0	.0	.0	3.1	3.0	24.8
1953	4.0	10.8	5.8	4.0	2.5	T	1.0	.7	T	.0	1.0	2.0	31.8
1954	8.0	4.5	13.0	T	T	.0	.0	.0	.4	3.5	2.1	5.8	35.1
1955	3.2	13.1	15.6	14.9	.2	T	.0	.0	.0	3.3	14.5	14.8	77.8
1956	3.5	3.6	6.1	6.6	4.5	.0	.0	.0	.0	T	13.0	4.9	42.0
1957	9.3	8.7	9.3	3.5	.0	.0	.0	.0	T	T	8.5	T	37.3
1958	2.6	10.3	3.3	.8	.0	.0	.0	.0	.0	5.0	10.2	17.5	49.7
1959	7.6	16.4	5.6	4.7	.0	.0	.0	.0	.0	4.3	14.9	1.8	55.1
1960	2.8	6.0	1.6	4.5	.0	.0	.0	.0	.0	.5	.5	-	-
PERIOD	5.2	8.3	8.2	4.5	.7	.5	.1	.1	T	2.2	7.3	8.8	43.9
YEARS	10	10	10	10	10	10	10	10	10	10	10	9	
RECORD	7.9	5.5	7.5	4.7	2.0	.2	T	T	.8	3.8	5.3	7.0	44.5
YEARS	55	55	55	55	55	55	55	55	55	55	55	54	

BUTTE FAA AP

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANN
1951	14.3	11.8	13.5	12.9	6.8	1.3	.0	.0	3.5	7.2	5.2	19.1	95.8
1952	4.4	12.7	21.5	.3	10.2	T	T	.0	.9	.4	11.9	3.3	65.6
1953	8.5	14.3	4.5	8.7	8.6	T	.0	.0	.0	T	4.0	2.9	51.5
1954	9.0	1.0	6.5	3.0	1.3	1.5	.0	T	.5	2.0	T	1.7	26.5
1955	4.9	4.1	18.7	9.8	4.5	.0	T	.0	T	3.0	9.2	19.5	73.7
1956	7.2	2.1	5.6	1.0	2.5	T	.0	.0	T	8.5	T	8.5	31.4
1957	10.2	4.1	9.5	5.8	4.0	T	.0	.0	5.0	4.2	4.5	8.4	55.5
1958	1.7	4.5	16.1	29.3	.6	.0	.0	.0	.3	1.0	5.9	4.7	64.1
1959	4.6	18.9	4.2	2.5	1.8	.0	.0	.0	.8	3.5	13.8	4.1	54.2
1960	5.4	7.2	7.3	9.8	5.0	T	.0	T	.0	5.3	4.5	5.9	50.4
PERIOD	7.0	8.1	10.7	8.3	4.5	.3	T	T	1.1	3.3	5.9	7.6	58.8
YEARS	10	10	10	10	10	10	10	10	10	10	10	10	
RECORD	7.1	7.2	9.2	5.4	4.2	.4	T	T	1.1	2.7	6.0	7.6	50.9
YEARS	29	29	29	29	29	29	29	29	29	29	29	29	

AO-16

Prog. Area: Watershed-Air
Prep. By: G. Lipscomb
Date: 26 July 77

AO-17

OUTPUT DESCRIPTION
Page 1 of 2

OUTPUT TITLE: Plot of Monthly and Accumulative Precipitation versus Time

OUTPUT FORM: Plot/Graphic Display

OUTPUT DESCRIPTION: A line plot of mean monthly and accumulative mean annual precipitation versus months for a planning unit. (See Attached).

USER(s): Hydrologist; Meteorologist; Planners; Natural Resource Specialist; etc. LOCATION(s): SO's; DO's; RAH's; etc.

USAGE:

As input to URA and other planning activities.

ACCESS LIMITATIONS: None

RESPONSE TIMES: DESIRED: 1 to 3 days REQUIRED: 1 week

FREQUENCY OF PRODUCTION: Monthly for RAH/DO specialists to annually for others.

DEPENDENCIES: None

REQUEST PARAMETERS: State, Administrative (100-0004) or State Geographic (100-0690); District, Administrative (100-0543); Planning Unit (100-1075)

WS-190

AO-17

OUTPUT DESCRIPTION
Page 2 of 2

OUTPUT TITLE: Plot of Monthly and Accumulative Precipitation versus Time

SORT ORDER: Identical to sequence of request parameters

ESTIMATED VOLUME: 1 to 3 copies per request with 1 page/copy

COMPUTATIONS/PROCESSES: Compute mean monthly precipitation totals for climatological stations within a planning unit and plot mean monthly and accumulative annual precipitation versus months of year.

ACCURACY: NA

SCALE: NA

ANNOTATIONS:

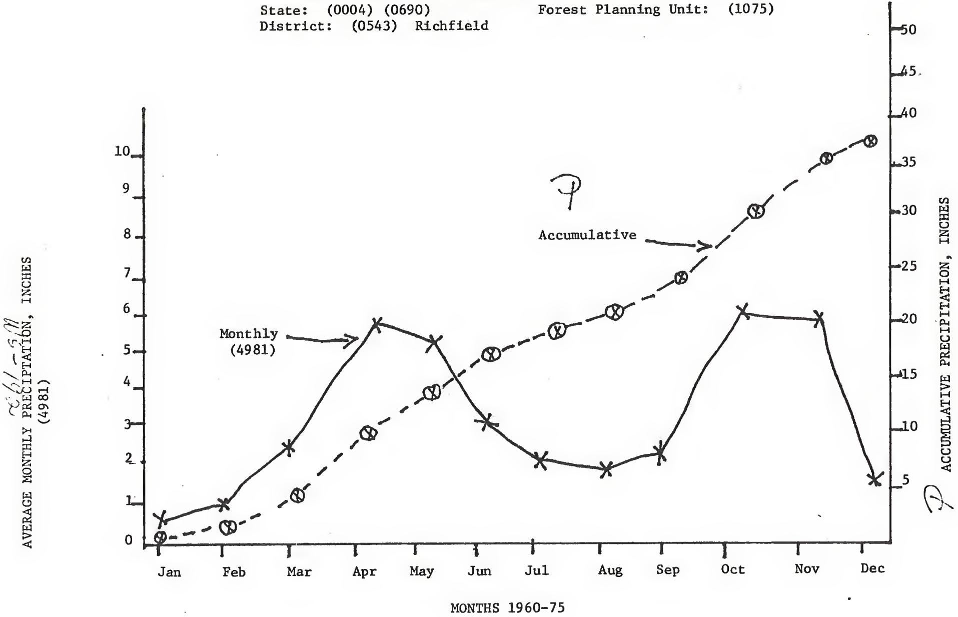
LEGEND: NA

REMARKS: None

WS -191

PLOT OF MONTHLY AND ACCUMULATIVE PRECIPITATION vs. TIME

State: (0004) (0690) Forest Planning Unit: (1075)
District: (0543) Richfield



Prog. Area: Watershed-Air
Prep. By: G. Lipscomb
Date: 26 July 77

AO-18

OUTPUT DESCRIPTION
Page 1 of 2

OUTPUT TITLE: Climate Overlay

OUTPUT FORM: Map/Graphic Display

OUTPUT DESCRIPTION: A graphic display of climatic data for a planning area. (See Attached).

USER(s): Meteorologist; Natural Resource Specialist; Hydrologist; Planners; etc.

LOCATION(s): SO's; DO's; RAH's; etc

USAGE:

As input to Step 2 URA.

ACCESS LIMITATIONS: None

RESPONSE TIMES: DESIRED: 1 to 3 days REQUIRED: 1 week

FREQUENCY OF PRODUCTION:

Monthly for RAH/DO Specialists to annually for others.

DEPENDENCIES:

None

REQUEST PARAMETERS: State, Administrative (100-0004) or State, Geographic (100-0690); District, Administrative (100-0543); Planning Unit (100-1075)

US-193

AO-18

OUTPUT DESCRIPTION
Page 2 of 2

OUTPUT TITLE: Climate Overlay

SORT ORDER: Identical to sequence of request parameters

ESTIMATED VOLUME: 1 to 3 copies per request with 1 page/copy

COMPUTATIONS/PROCESSES: Computation of average annual precipitation, snow pack areas, average annual frost-free days, and prevailing winds from recorded values (hourly, daily, etc.) for climatological stations

ACCURACY: Within 5%

SCALE: Variable (filed at 1:24;000, 1:62,500, or 1:125,000)

ANNOTATIONS: (See attached sample output)

LEGEND: Standard map symbols to show location of precipitation isohyets, snow pack areas, frost-free days, prevailing air movement, etc.

REMARKS:

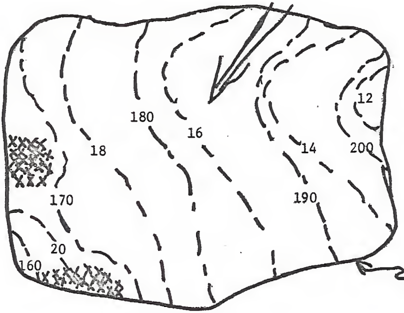
None

WS-194

Climate Overlay

State: (0004) (0690)
District: (0543)
P. U.: (1075)

Date; (7308)



Boundary of P. U.
(7501)

Legend

---20---	Average Annual precipitation in inches
xxx xxx	Snow Pack Areas (Dec-Mar)
←	Prevailing air movement
---200---	Average annual frost-free days

WS-195

Prog. Area: Watershed-Air
Prep. By: G. Lipscomb
Date: 26 July 77

AO-19

OUTPUT DESCRIPTION
Page 1 of 2

OUTPUT TITLE: Table of Killing Frost Dates by Planning Unit

OUTPUT FORM: Printout/Data Display

OUTPUT DESCRIPTION: A table summarizing average dates for first and last annual frosts and number of frost-free days for a planning unit (See Attached).

USER(s): Meteorologist; Natural Resource Specialist; Planners; etc.

LOCATION(s): SO's; DO's; RAH's; etc.

USAGE: As input to URA (Step 2) and other planning activities.

ACCESS LIMITATIONS: None

RESPONSE TIMES: DESIRED: 1 to 3 days REQUIRED: 1 week

FREQUENCY OF PRODUCTION: Monthly for RAH/DO Specialists to annually for others.

DEPENDENCIES: None

REQUEST PARAMETERS: State, Administrative (100-0004) or State, Geographic (100-0690); District, Administrative (100-0543); Planning Unit (100-1075); Elevation (100-0431)

WS-196

AO-19

OUTPUT DESCRIPTION
Page 2 of 2

OUTPUT TITLE: Table of Killing Frost Dates by Planning Unit

SORT ORDER: Identical to sequence of request parameters

ESTIMATED VOLUME: 1 to 3 copies per request with 1 page/copy

COMPUTATIONS/PROCESSES:

Computation of average dates for last spring and first fall killing frosts together with computation of number of days between the two dates for climatological station(s) within a planning unit.

ACCURACY:

NA

SCALE:

NA

ANNOTATIONS:

NA

LEGEND:

NA

REMARKS:

None

WS-197

MS-198

TABLE OF KILLING FROST DATES BY PLANNING UNIT

State (0004) (0690)
District (0543)
P.U. (1075)

P.U. Elevation	Average Frost-Date		Number of Frost-Free Days
	Last Spring	First Fall	
3000	April 8	Oct. 26	200
4000	" 12	" 20	190
5000	" 16	" 14	180
6000	" 20	" 8	170
7000	" 24	" 2	160
(0431)	(4980)	(4979)	(4949)

AO-20

Prog. Area: Watershed-Air
Prep. By: G. Lipscomb
Date: 26 July 77

OUTPUT DESCRIPTION
Page 1 of 2

OUTPUT TITLE: Table of Seasonal Distribution of Precipitation by Planning Unit

OUTPUT FORM: Printout/Data Display

OUTPUT DESCRIPTION: A table summarizing average monthly precipitation by elevation for a planning unit (See Attached)

USER(s): Hydrologist; Meteorologist; Natural Resource Specialist; Planners; etc.

LOCATION(s): SO's; DO's; RAH's; etc

USAGE: As input to URA (Step 2) and other planning activities.

ACCESS LIMITATIONS: None

RESPONSE TIMES: DESIRED: 1 to 3 days REQUIRED: 1 week

FREQUENCY OF PRODUCTION: Monthly for RAH/DO specialists to annually for others.

DEPENDENCIES: None

REQUEST PARAMETERS: State, Administrative (100-0004) or State, Geographic (100-0690); District, Administrative (100-0543); Planning Unit (100-1075)

WS-199

OUTPUT DESCRIPTION
Page 2 of 2

AQ-20
OUTPUT TITLE: Table of Seasonal Distribution of Precipitation by Planning Unit

SORT ORDER: Identical to sequence of request parameters

ESTIMATED VOLUME: 1 to 3 copies per request with 1 page/copy

COMPUTATIONS/PROCESSES: Computation of average monthly precipitation by elevation from recorded values (hourly, daily, etc.) of climatological station records.

ACCURACY: NA

SCALE: NA

ANNOTATIONS: NA

LEGEND:
NA

REMARKS:
None

WS-200

TABLE OF SEASONAL DISTRIBUTION OF PRECIPITATION BY PLANNING UNIT

State: (0004) (0690)
District: (0543)
Planning Unit: (1075)

Date: (7308)

1115-201

Month	Average Monthly Precipitation (inches) by Elevation (feet)				
	3000	4000 (0431)	5000	6000	7000
JAN.	0.1	0.2	0.3	0.4	0.5
FEB.	0.4	0.5	0.7	0.9	1.0
MAR.	1.0	1.5	1.5	1.7	2.5
APR.	2.5	2.8	4.0	5.0	5.5
MAY	1.5	2.0	3.0	4.0	5.0
JUN.	1.0	1.5	2.0	2.5	3.0
JUL.	1.0	1.5	2.0	2.0	2.5
AUG.	0.5	1.0	1.5	2.0	2.0
SEP.	1.0	1.5	2.0	2.5	2.5
OCT.	2.5	3.0	4.0	5.0	6.0
NOV.	2.0	3.0	4.0	4.5	5.5
DEC.	0.5	1.0	1.0	1.5	1.5
Annual	14.0	19.5	26.0	32.0	37.5

(4981)

AQ-21

Prog. Area: Watershed-Air
Prep. By: G. Lipscomb
Date: 26 July 77

OUTPUT DESCRIPTION
Page 1 of 2

OUTPUT TITLE: Table of Seasonal Distribution of Temperature by Planning Unit

OUTPUT FORM: Printout/Data Display

OUTPUT DESCRIPTION: A table summarizing mean monthly maximum and minimum temperatures by elevation for a planning unit.

USER(s): Meteorologist; Natural Resource Specialist; Planners; etc.

LOCATION(s): SO's; DO's; RAH's; etc.

USAGE: As input to Step 2 URA and other planning activities.

ACCESS LIMITATIONS: None

RESPONSE TIMES: DESIRED: 1 to 3 days REQUIRED: 1 week

FREQUENCY OF PRODUCTION: Monthly for RAH/DO Specialists to annually for others.

DEPENDENCIES: None

REQUEST PARAMETERS: State, Administrative (100-0004) or State, Geographic (100-0690); District, Administrative (100-0543); Planning Unit (100-1075).

WS-202

AO-21

OUTPUT DESCRIPTION
Page 2 of 2

OUTPUT TITLE: Table of Seasonal Distribution of Temperature by Planning Unit

SORT ORDER: Identical to sequence of request parameters

ESTIMATED VOLUME: 1 to 3 copies per request with 1 page/copy

COMPUTATIONS/PROCESSES:

Computation of mean monthly temperature by elevation from recorded values (hourly, daily, etc.) of climatological station records.

ACCURACY:

NA

SCALE:

NA

ANNOTATIONS:

NA

LEGEND:

NA

REMARKS: None.

TABLE OF SEASONAL DISTRBUTION OF TEMPERATURE BY PLANNING UNIT

State (0004) (0690)
District (0543)
P.U. (1075)

DAte: (7308)

Month		Mean Monthly Temperature (oF) by Elevation (feet)					
P		3000	4000 ← (0481) → 5000		6000	7000	
Jan	MAX	(4982) →					
Feb	MIN	(4983) →					
Mar	MAX						
Apr	MIN						
May	MAX						
Jun	MIN						
Jul	MAX						
Aug	MIN						
Sept	MAX						
Oct	MIN						
Nov	MAX						
Dec	MIN						

115-304

Prog. Area: Watershed-Air
Prep. By: G. Lipscomb
Date: 26 July 77

AO-22

OUTPUT DESCRIPTION
Page 1 of 2

OUTPUT TITLE: Air Quality Overlay

OUTPUT FORM:
Map/Graphic Display

OUTPUT DESCRIPTION:
A graphic display of air quality data for a planning area (see attached).

USER(s): Air Quality Specialist; Natural Resource Specialist; Planners; etc.
LOCATION(s): SO's; DO's; RAH's; etc.

USAGE:
As input for Step 2 URA

ACCESS LIMITATIONS: None

RESPONSE TIMES: DESIRED: 1 to 3 days REQUIRED: 1 week

FREQUENCY OF PRODUCTION: Monthly for RAH/DO Specialists to annually for others.

DEPENDENCIES:
None

REQUEST PARAMETERS: State, Administrative (100-0004) or State, Geographic (100-0690); District, Administrative (100-0543); Planning Unit (100-1075)

WS-205

OUTPUT DESCRIPTION
Page 2 of 2

OUTPUT TITLE: Air Quality Overlay

SORT ORDER: Identical to sequence of request parameters

ESTIMATED VOLUME: 1 to 3 copies per request with 1 page/copy

COMPUTATIONS/PROCESSES:

None

ACCURACY: Within 5%

SCALE: Variable (filed at 1:24,000, 1:62,500, or 1:125,000)

ANNOTATIONS: (See Attached Sample Output)

LEGEND: Standard map symbols to depict air basin/airshed boundaries, and air pollution sources (see legend on attached sample)

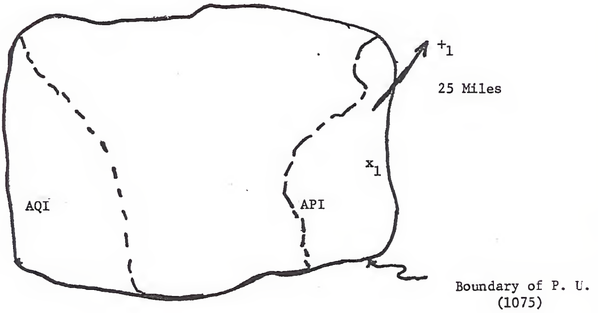
REMARKS:

None

Air Quality Overlay

State: (0004) (0690)
District: (0543)
Planning Unit: (1075)

Date: (7308)



Legend

-AQI--	Quality Airshed No. 1
-API--	Polluted Airshed No. 1
x_1	Sawmill burner No. 1
$+_1$	Power Plant (coal-fired) No. 1

115-207

Prog. Area: Watershed-Air
Prep. By: G. Lipscomb
Date: 26 July 77

AO-23

OUTPUT DESCRIPTION
Page 1 of 2

OUTPUT TITLE: Air Quality Table by Planning Unit

OUTPUT FORM:
Printout/Data Display

OUTPUT DESCRIPTION:
A table summarizing average monthly air pollutant levels for a planning area (See Attached).

USER(s): Air Quality Specialist; Natural Resource Specialist; Planners; etc.

LOCATION(s): SO's; DO's; RAH's; etc.

USAGE:
As input to Step 2 URA.

ACCESS LIMITATIONS: None

RESPONSE TIMES: DESIRED: 1 to 3 days REQUIRED: 1 week

FREQUENCY OF PRODUCTION:
Monthly for RAH/DO Specialists to annually for others

DEPENDENCIES: None

REQUEST PARAMETERS: State, Administrative (100-0004) or State, Geographic (100-0690); District, Administrative (100-0543); Planning Unit (100-1075)

IIS-208

AO-23

OUTPUT DESCRIPTION
Page 2 of 2

OUTPUT TITLE: Air Quality Table by Planning Unit

SORT ORDER: Identical to sequence of request parameters

ESTIMATED VOLUME: 1 to 3 copies per request with 1 page/copy

COMPUTATIONS/PROCESSES: Computation of average monthly air pollutant levels for air pollution parameters from recorded values (hourly, daily, etc.) for monitoring station records.

ACCURACY:

NA

SCALE:

NA

ANNOTATIONS: NA

LEGEND:

NA

REMARKS:

None

115-209

WS-3.10

AIR QUALITY TABLE BY PLANNING UNIT

State (0004) (0690)
District (0543)
P.U. (1075)

Date: (7308)

Month	Average Monthly Pollutant Level (ug/m^3) (4930)			
	Particulates	NO$_2$ ←(4937)→	SO$_2$	HC
Jan				
Feb				
Mar				
Apr				
May				
Jun				
Jul				
Aug		←(4985)→		
Sept				
Oct				
Nov				
Dec				
Annual	P			

AO-24

Prog. Area: Watershed-Air
Prep. By: G. Lipscomb
Date: 24 Aug. 77

OUTPUT DESCRIPTION
Page 1 of 2

OUTPUT TITLE: Climate Narrative

OUTPUT FORM: Narrative

OUTPUT DESCRIPTION: A Step 2 URA narrative describing the climate of a planning area (See Attached).

USER(s): Air Resources Specialist; Air Quality Specialist; Meteorologist; Planner; etc.

LOCATION(s): RAH; DO; SO; etc.

USAGE:

As input to Step 2 of URA

ACCESS LIMITATIONS: None

RESPONSE TIMES: DESIRED: 2 or 3 days REQUIRED: 1 week

FREQUENCY OF PRODUCTION: Monthly for specialist *at* RAH or DO to annually for those at SO.

DEPENDENCIES:

None

REQUEST PARAMETERS:

State, Administrative (100-0004) or State, Geographic (100-0690); District, Administrative (100-0543); Planning Unit (100-1075)

105-311

AQ-24

OUTPUT DESCRIPTION
Page 2 of 2

OUTPUT TITLE:
Climate Narrative

SORT ORDER:
Identical to Request Parameters

ESTIMATED VOLUME:
3 to 5 copies per request

COMPUTATIONS/PROCESSES:
NA

ACCURACY:
NA

SCALE:
NA

ANNOTATIONS:
NA

LEGEND:
NA

REMARKS:
None

WS-212

CLIMATE NARRATIVE

State: {0004} {0690}
District: {0543}
Planning Unit: {1075}

Date: {8518}

Annual precipitation comes in the form of . . . .
(4984)

Snowpack areas are limited due to . . . .
(4984)

Humidities vary from . . . .
(4984)

Temperatures vary from . . . .
(4984)

Prog. Area: Watershed-Air
Prep. By: G. Lipscomb
Date: 25 Aug. 77

AO-25

OUTPUT DESCRIPTION
Page 1 of 2

OUTPUT TITLE: Air Quality Narrative

OUTPUT FORM: Narrative

OUTPUT DESCRIPTION: A Step 2 URA narrative describing Air Quality conditions for a planning area (See Attached).

USER(s): Planner; Air Resources Specialist; Air Quality Specialist; etc.

LOCATION(s): RAHs; DOs; SOs; etc.

USAGE: As input to Step 2 of URA.

ACCESS LIMITATIONS:

None

RESPONSE TIMES: DESIRED: 2 to 3 days

REQUIRED: 1 week

FREQUENCY OF PRODUCTION:

Monthly for specialists at RAHs and DOs to annually for those at SO.

DEPENDENCIES:

None

REQUEST PARAMETERS:

State, Administrative (100-0004) or State, Geographic (100-0690); District, Administrative (100-0543) Planning Unit (100-1075)

115-214

AO-25

OUTPUT DESCRIPTION
Page 2 of 2

OUTPUT TITLE: Air Quality Narrative

SORT ORDER: Identical to Request Parameters

ESTIMATED VOLUME: 3 to 5 copies per request

COMPUTATIONS/PROCESSES:

NA

ACCURACY:

NA

SCALE:

NA

ANNOTATIONS:

NA

LEGEND:

NA

REMARKS:

None

AIR QUALITY NARRATIVE

State: {0004} {0690} Date: {8518}
District: {0543}
Planning Unit: {1075}

Air Pollution sources include . . . .
(4986)

A quality airshed is located . . . .
(4986)

115-316

GO-1

Prog. Area: Watershed-Geol.
Prep. By: G. Lipscomb
Date: 27 July 77

OUTPUT DESCRIPTION
Page 1 of 2

OUTPUT TITLE: GEOLOGIC MAP

OUTPUT FORM: Map/Graphic Display

OUTPUT DESCRIPTION: A graphic display of geologic data by planning unit or other planning area. (See attached.)

USER(s): Geologist; Natural Resource Specialist, etc.

LOCATION(s): SO's; DO's; RAH's; etc.

USAGE: As input to URA, EAR's, ES's, activity plans, and project design.

ACCESS LIMITATIONS: None

RESPONSE TIMES: DESIRED: 1 to 3 days REQUIRED: 1 week

FREQUENCY OF PRODUCTION: Monthly for RAH/D.O. specialists to annually for others.

DEPENDENCIES: None

REQUEST PARAMETERS: State, Administrative (100-0004) or State, Geographic (100-0690)
District, Administrative (100-0543); Planning Unit (100-1075)

LLS-217

OUTPUT DESCRIPTION
Page 2 of 2

OUTPUT TITLE: GEOLOGIC MAP

SORT ORDER: Identical to sequence of request parameters

ESTIMATED VOLUME: 1 to 3 copies per request with 1 page/copy

COMPUTATIONS/PROCESSES: None

ACCURACY: Within 5%

SCALE: Variable (filed at 1:24,000, 1:62,500, or 1:125,000)

ANNOTATIONS: (See attached sample output)

LEGEND: Standard map symbols for depicting geologic formations, faults, strike, dip, syncline, anticline, etc. (See legend on attached sample).

REMARKS: None

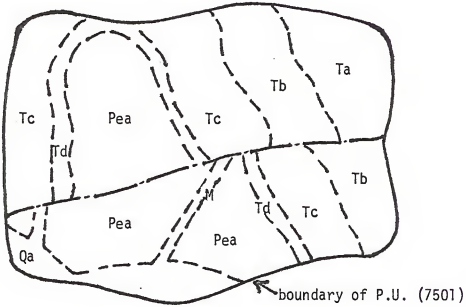
115-318

Geology 0-1

Date: (7308)

GEOLOGIC MAP

State (0004)(0690)
District (0543)
P.U. (1075)



LEGEND

Qa	Quaternary stream alluvial gravels
Ta	Albert Formation
Tb	Bertim Sandstone
Tc	Charles Shale
Td	Delta Conglomerate
M	Quartz
Pea	Altimet Gneiss
— - —	fault line

IUS-219

GO-2

Prog. Area: Watershed-Geol.
Prep. By: G. Lipscomb
Date: 27 July 77

OUTPUT DESCRIPTION
Page 1 of 2

OUTPUT TITLE: GEOLOGIC HAZARD MAP

OUTPUT FORM: Map/Graphic Display

OUTPUT DESCRIPTION: A graphic display of geologic hazards for a planning area. (See attached.)

USER(s): Geologist; Natural Resource Specialist; Planners; etc.

LOCATION(s): SO's, DO's; RAH's; etc.

USAGE: As input to URA, EAR's, ES's, activity plans, and project design.

ACCESS LIMITATIONS: None

RESPONSE TIMES: DESIRED: 1 to 3 days REQUIRED: 1 week

FREQUENCY OF PRODUCTION: Monthly for RAH/DO specialists to annually for others.

DEPENDENCIES: None

REQUEST PARAMETERS: State, Administrative (100-0004) or State, Geographic (100-0690); District, Administrative (100-0543); Planning Unit (100-1075)

WS-320

GO-2

OUTPUT DESCRIPTION
Page 2 of 2

OUTPUT TITLE: GEOLOGIC HAZARD MAP

SORT ORDER: Identical to sequence of request parameters.

ESTIMATED VOLUME: 1 to 3 copies per request with 1 page/copy.

COMPUTATIONS/PROCESSES: None

ACCURACY: Within 5%

SCALE: Variable (filed at 1:24,000, 1:62,500, or 1:125,000)

ANNOTATIONS: (See attached sample output.)

LEGEND: Standard map symbols to depict such geologic hazards as landslides, floods, etc.

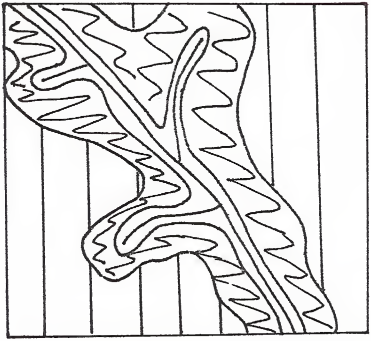
REMARKS: None

Geology 0- 2

GEOLOGIC HAZARD MAP

Date: (7308)

State (0004)(0690)
District (0543)
P.U. (1075)



LEGEND

- ⪢ landslide susceptibility
- ▭ flood susceptibility
- ▥ no landslide/flood susceptibility

GO-3

Prog. Area: Watershed-Geol.
Prep. By: G. Lipscomb
Date: 27 July 77

OUTPUT DESCRIPTION
Page 1 of 2

OUTPUT TITLE: MAP OF LANDFORMS

OUTPUT FORM: Map/Graphic Display

OUTPUT DESCRIPTION: A graphic display of the boundaries of landforms and physiographic regions. (See attached.)

USER(s): Geologist; Soil Scientists; Geomorphologists; Natural Resource Specialists; Planners; etc.

LOCATION(s): SO's, DO's; RAH's; etc.

USAGE: As input to URA, EAR's, ES's, activity plans, and project designs.

ACCESS LIMITATIONS: None

RESPONSE TIMES: DESIRED: 1 to 3 days REQUIRED: 1 week

FREQUENCY OF PRODUCTION: Monthly for RAH/DO specialists to annually for others.

DEPENDENCIES: None

REQUEST PARAMETERS: State, Administrative (100-0004) or State, Geographic (100-0690); District, Administrative (100-0543); Planning Unit (100-1075)

WS-223

GD-3

OUTPUT DESCRIPTION
Page 2 of 2

OUTPUT TITLE: MAP OF LANDFORMS

SORT ORDER: Identical to sequence of request parameters.

ESTIMATED VOLUME: 1 to 3 copies per request with 1 page/copy

COMPUTATIONS/PROCESSES: None

ACCURACY: Within 5%

SCALE: Variable (filed at 1:24,000, 1:62,500 or 1:125,000)

ANNOTATIONS: (See attached sample output.)

LEGEND: Standard map symbols for depicting landforms and physiographic regions (see legend on attached sample output).

REMARKS: None

Geology O- 3

MAP OF LANDFORMS

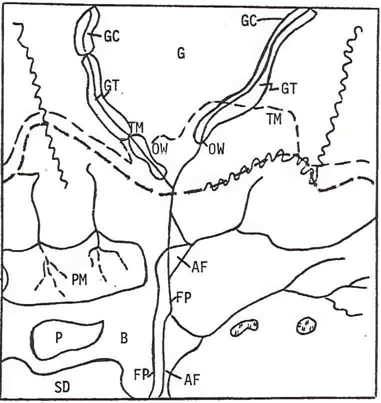
Date: (7308)

State (0004)
District (0543)
P.U. (1075)

LEGEND

2a	Physiographic division (6538)
	Drainage pattern relief
GT	Geomorphic feature
⊘	Sinkhole
G	Glaciated area
GC	Glacial cirque
GT	Glacial trough
TM	Terminal moraine
OW	Outwash
F	Fluvial area
PM	Piedmont
AF	Alluvial fan
FP	Floodplain
P	Playa
B	Bolson
SD	Sand dunes
〰	Ridges =
~	Streams
∿	Geologic boundaries

(5132)



115-225

GO-4

Prog. Area: Watershed-Geol.
Prep. By: G. Lipscomb
Date: 27 July 77

OUTPUT DESCRIPTION
Page 1 of 2

OUTPUT TITLE: MAP OF INTERPRETIVE AREAS

OUTPUT FORM: Map/Graphic Display

OUTPUT DESCRIPTION: A graphic display of the boundaries of areas within a planning area which have interpretive values (see attached).

USER(s): Geologist; Natural Resource Specialist; Planners; etc.

LOCATION(s): SO's; DO's; RAH's; etc.

USAGE: As input to Step 2 URA and other planning activities.

ACCESS LIMITATIONS: None

RESPONSE TIMES: DESIRED: 1 to 3 days REQUIRED: 1 week

FREQUENCY OF PRODUCTION: Monthly for RAH/DO specialists to annually for others.

DEPENDENCIES: None

REQUEST PARAMETERS: State, Administrative (100-0004) or State Geographic (100-0690); District, Administrative (100-0543); Planning Unit (100-1075)

WS-226

GO-4

OUTPUT DESCRIPTION
Page 2 of 2

OUTPUT TITLE: MAP OF INTERPRETIVE AREAS

SORT ORDER: Identical to sequence of request parameters

ESTIMATED VOLUME: 1 to 3 copies per request with 1 page/copy

COMPUTATIONS/PROCESSES: None

ACCURACY: Within 5%

SCALE: Variable (filed at 1:24,000, 1:62,500 or 1:125,000)

ANNOTATIONS: (See attached copy of sample output)

LEGEND: Standard map symbols for depicting areas such as rockhounding, fossilized, etc. (See legend on attached sample.)

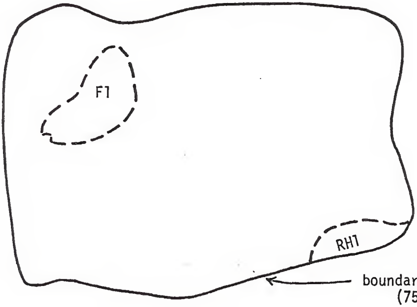
REMARKS: None

Geology 0- 4

Date: (7308)

MAP OF INTERPRETIVE AREAS

State (0004)(0690)
District (0543)
P.U. (1075)



boundary of P.U.
(7501)

LEGEND

RH1 Geologic Materials for Rockhounding

F1 Area Containing Fossils

WS-228

GO-5

Prog. Area: Watershed-Geol.
Prep. By: G. Lipscomb
Date: 27 July 77

OUTPUT DESCRIPTION
Page 1 of 2

OUTPUT TITLE: TABLE OF DESCRIPTIVE WELL DATA

OUTPUT FORM: Printout/Data Display

OUTPUT DESCRIPTION: A table summarizing information for a water well. (See attached.)

USER(s): Hydrologist; Geologist; Natural Resource Specialist; etc.

LOCATION(s): SO's; DO's; RAH's; etc.

USAGE: As input to URA, EAR's, ES's, activity plans, and project design.

ACCESS LIMITATIONS: None

RESPONSE TIMES: DESIRED: 1 to 3 hours REQUIRED: 1 day

FREQUENCY OF PRODUCTION: Weekly for RAH/DO specialist to quarterly for others

DEPENDENCIES: None

REQUEST PARAMETERS: State, Administrative (100-0004) or State, Geographic (100-0690); District, Administrative (100-0543); Number, Ground-Water Site (145-5149)

WS-229

GD-5

OUTPUT DESCRIPTION
Page 2 of 2

OUTPUT TITLE: TABLE OF DESCRIPTIVE WELL DATA

SORT ORDER: Identical to sequence of request parameters

ESTIMATED VOLUME: 1 to 3 copies per request with 1 to 5 pages/copy

COMPUTATIONS/PROCESSES: None

ACCURACY: NA

SCALE: NA

ANNOTATIONS: NA

LEGEND: NA

REMARKS: None

WS-230

TABLE OF DESCRIPTIVE WELL DATA

W/S-231/

State (0004) (0690)	District (0543)	Well Number (5149)	Owner or Name (5153)	INVENTORY Date (5105)	DATE DRILLED (5184)	METHOD DRILLED (5181)	DEPTH WELL (Feet) (5174)	DEPTH CASED (Feet) (5173)	WELL FINISH (5187)	DIAMETER (In.) (5163)	POWER (5182)	LIFT METHOD (5195)	WATER USE (5186)	WELL USE (5179)	ALTITUDE OF LSD (Feet) (0431)	CHEMICAL ANALYSES (5157)	PUMPING DATA (5106)	LOG DATA (5160)
		06N/12W-04A01 S		1973	1950	R	504	288	F	12		N	U	U	2540		P	D
		06N/12W-04A02 S	M. Harding	1963							5	S	H	W	2533			
		06N/12W-04A03 S	McIntire	1963	1957						5	S	U	U	2534			
		06N/12W-04J01 S		1963							5	S	H	W	2563			
		06N/12W-04J02 S		1963										Z	2567			
		06N/12W-04R01 S	Gospel Church	1963							5	S	H	W	2576			
		06N/12W-05A01 S	White Fence Fms	1963	1948	H				14	V	T	P	W	2533	P	P	D
		06N/12W-05A02 S	White Fence Fms	1963									P	W	2533	M		
		06N/12W-06B01 S	McDonald	1963						4	6	P	H	W	2534			
		06N/12W-06M01 S	Quartz Hill Cwd	1963						12		N	U	U	2553			
		06N/12W-07A01 S	Sunnyside Farms	1963	1951	H	432	276	F	14	V	T	P	W	2597		P	D
		06N/12W-07A02 S	Sunnyside Farms	1963	1954	H	456	259	F	14	5	T	P	W	2589		P	D
		06N/12W-10C01 S	U.S. Government	1963										Z	2588			
		06N/12W-11D01 S	U.S. Government	1963							V	T	U	U	2565			
		06N/13W-01F01 S		1963	1919									Z	2523		P	D
		06N/13W-02F01 S	J. Hunter	1963	1886	D				36		N	U	U	2568			
		06N/13W-02N01 S	Godde Bros.	1963	1937					10	T	T	U	U	2725		P	
		06N/13W-02N02 S	J. Godde	1963	1920					12		N	U	U	2654			
		06N/13W-02P01 S		1963						10		N	U	U	2702			
		06N/13W-02Q01 S	J. Godde	1963	1930	D				48		N	U	U	2664			
		06N/13W-02Q02 S	J. Godde	1963	1936	H				8	5	S	H	W	2662		P	
		06N/13W-02Z01 S	J. Godde	1963										Z	2702			
		06N/13W-02Z02 S	Latrell	1963	1900									Z	2632			
		06N/13W-02Z03 S		1963										Z	2679			
		06N/13W-02Z04 S	J. Godde	1963		D								Z	2614			
		06N/13W-02Z05 S		1963	1915									Z	2607			
		06N/13W-02Z06 S		1963	1916									Z	2531			

GO-6

Prog. Area: Watershed-Geol.
Prep. By: G. Lipscomb
Date: 27 July 77

OUTPUT DESCRIPTION
Page 1 of 2

OUTPUT TITLE: WELL WATER - LEVEL TABLE

OUTPUT FORM: Printout/Data Display

OUTPUT DESCRIPTION: A table summarizing water level data for water wells. (See attached.)

USER(s): Hydrologist; Geologist; Natural Resource Specialist; Watershed Specialist; etc.

LOCATION(s): SO's; DO's; RAH's; etc.

USAGE: As input to URA, EAR's, ES's, activity plans, and project design.

ACCESS LIMITATIONS: None

RESPONSE TIMES: DESIRED: 1 to 3 hours REQUIRED: 1 day

FREQUENCY OF PRODUCTION: Weekly for RAH/DO specialists to quarterly for others.

DEPENDENCIES: None

REQUEST PARAMETERS: State, Administrative (100-0004) or State, Geographic (100-0690); District, Administrative (100-0543); Number, Ground-Water Site (145-5149); Date, Water-Level Measurement (145-5134)

GO-6

OUTPUT DESCRIPTION
Page 2 of 2

OUTPUT TITLE: WELL WATER - LEVEL TABLE

SORT ORDER: Identical to sequence of request parameters.

ESTIMATED VOLUME: 1 to 3 copies per request with 1 to 5 pages/copy

COMPUTATIONS/PROCESSES: None

ACCURACY: NA

SCALE: NA

ANNOTATIONS: NA

LEGEND: NA

REMARKS: None

WELL WATER-LEVEL TABLE

SITE NUMBER: A - 150-1/2 - 140-1/2 - 155 abc 99W-06-H (5149)
DATE DRILLED: 09-10-1976 (5184)
NAME OF DRILLER: Smith, Joe E. (5185)
DEPTH DRILLED: 1,000 ft. (5180)
DEPTH CASED: 500 ft. (5173)
DEPTH WELL: 500 ft. (5174)
PERFORATED INTERVAL: 400-450 ft. (5162)
CASING DIAMETER: 6 inches (5163)
ALTITUDE OF LAND SURFACE: 2,000.00 ft. (0431)
PERIOD WATER-LEVEL RECORDS AVAILABLE: 1940-45; 1960-76 P
OWNER OR NAME: Brown, John A. (5153)
STATE: 06 (0004)(0690)
DISTRICT: 01 (0543)

Date (5134)	Water Level (5178)		Date	Water Level		Date	Water Level		Date	Water Level	
Oct. 1, 1958	134.	G	Jan. 6, 1964	166.	G	July 1, 1967	183.	G	Apr. 3, 1970	163.	G
May 1, 1959	108.	G	Mar. 4	166.	G	Aug. 4	188.	G	May 1	165.	G
June 2	102.	G	Apr. 2	169.	G	Sep. 5	190.	G	Aug. 4	178.	G
Sep. 4	156.	A	May 5	168.	G	Oct. 2	189.	G	Oct. 23	130.45	
Jan. 6, 1960	123.	G	June 9	169.	G	Nov. 2	126.6		Nov. 5	170.	G
Mar. 4	107.	G	June 23	162.1	G	Nov. 3	184.	G	Jan. 4, 1971	156.	G
Apr. 1	176.	A	July 2	170.	G	Dec. 4	175.	G	Mar. 1	155.	G
Sep. 20	134.	G	Aug. 5	168.	G	Jan. 2, 1968	169.	G	Mar. 18	A	
Sep. 20	152.	A	Sep. 1	185.	G	Feb. 1	168.	G	Apr. 6	163.	G
Dec. 2	138.	G	Oct. 7	180.	G	Mar. 1	206.	G	May 7	162.	G
Feb. 17, 1961	165.	G	Nov. 6	178.	G	Mar. 27	130.51		June 2	168.	G
Mar. 4	150.	G	Feb. 1, 1965	169.	G	Apr. 3	195.	G	July 13	173.	G
May 26	158.	G	Apr. 5	168.	G	May 3	180.	G	Aug. 5	174.	G
Sep. 29	160.	G	June 2	177.	G	June 7	185.	G	Sep. 1	176.	G
Dec. 1	143.	G	Sep. 2	183.	G	July 1	189.	G	Oct. 4	176.	G
Jan. 2, 1962	150.	G	Oct. 11	206.	G	Aug. 2	193.	G	Oct. 28	129.69	
Feb. 2	134.	G	Dec. 1	182.	G	Sep. 5	195.	G	Nov. 2	171.	G
June 4	150.	G	Jan. 4, 1966	163.	G	Oct. 1	195.	G	Dec. 2	165.	G
Aug. 9	225.	A	Feb. 2	159.	G	Nov. 4	186.	G	Jan. 4, 1972	160.	G
Oct. 9	165.	G	Mar. 8	155.	G	Dec. 4	180.	G	Feb. 3	166.	G
Nov. 8	163.	G	Apr. 1	165.	G	Jan. 2, 1969	170.	G	Mar. 2	168.	G
Dec. 3	175.	G	May 9	170.	G	Feb. 7	169.	G	Mar. 16	129.85	
Jan. 2, 1963	165.	G	June 3	176.	G	Apr. 1	170.	G	Apr. 3	165.	G
Feb. 5	155.	G	Aug. 2	185.	G	Apr. 15	130.46		May 4	166.	G
Mar. 5	163.	G	Sep. 13	190.	G	May 5	173.	G	June 1	166.	G
Apr. 10	167.	G	Oct. 4	189.	G	June 5	175.	G	July 5	167.	G
May 1	160.	G	Nov. 14	177.	G	July 1	180.	G	Aug. 1	178.	G
June 3	162.	G	Dec. 5	171.	G	July 30	183.	G	Sep. 5	173.	G
July 2	166.	G	Jan. 6, 1967	165.	G	Sep. 2	189.	G	Oct. 4	173.	G
Aug. 5	170.	G	Feb. 1	163.	G	Nov. 5	180.	G	Oct. 11	124.99	
Aug. 14	131.4		Mar. 3	165.	G	Dec. 1	172.	G	Feb. 15, 1973	128.86	
Sep. 5	175.	G	Mar. 17	130.28		Jan. 2, 1970	168.	G	Feb. 13, 1974	134.	
Oct. 1	170.	G	Apr. 6	168.	G	Feb. 6	164.	G	Feb. 18, 1975	129.70	
Nov. 5	163.	G	May 1	170.	G	Mar. 7	159.	G	Feb. 9, 1976	128.83	
Dec. 4	164.	G	June 2	175.	G	Mar. 17	126.10				

1115-334

GO-6

GO-7

Prog. Area: Watershed-Geol.
Prep. By: G. Lipscomb
Date: 27 July 77

OUTPUT DESCRIPTION
Page 1 of 2

OUTPUT TITLE: TABLE OF PUMPING DATA FOR WELLS

OUTPUT FORM: Printout/Data Display

OUTPUT DESCRIPTION: A table summarizing pumping data for water wells (see attached).

USER(s): Hydrologist; Geologist; Watershed Specialist; Natural Resource Specialist; etc.

LOCATION(s): SO's; DO's; RAH's; etc.

USAGE: As input to URA, EAR's, ES's, activity plans, and project design.

ACCESS LIMITATIONS: None

RESPONSE TIMES: DESIRED: 1 to 3 hours REQUIRED: 1 day

FREQUENCY OF PRODUCTION: Weekly for RAH/DO specialists to quarterly for others.

DEPENDENCIES: None

REQUEST PARAMETERS: State, Administrative (100-0004) or State, Geographic (100-0690); District, Administrative (100-0543); Number, Ground-Water Site (145-5149)

WS-335

GB-7

OUTPUT DESCRIPTION
Page 2 of 2

OUTPUT TITLE: TABLE OF PUMPING DATA FOR WELLS

SORT ORDER: Identical to sequence of request parameters

ESTIMATED VOLUME: 1 to 3 copies per request with 1 to 5 pages/copy

COMPUTATIONS/PROCESSES: Computation of data elements for drawdown and specific capacity is made from other displayed data elements.

ACCURACY: NA

SCALE: NA

ANNOTATIONS: NA

LEGEND: NA

REMARKS: None

W2-236

TABLE OF PUMPING DATA FOR WELL

State (0690) (0004)	District (0543)	Well Number (5149)	Date (5145)	Pumping Period (5135)	Static Water Level (Ft.) (5197)	Pumping Water Level (Ft.) (5196)	Draw-Down (Ft.) (5101)	Discharge (GPM) (5316) (5315)	Specific Capacity (GPM/Ft. of DD) (5102)
		06N/12W-04A01 S	05 29 50	16.0 hrs.	238.0	256.0	18.0	1100.0	61.11
		06N/12W-06A01 S	07 10 57		267.1	292.6	25.5	853.0	33.50
		06N/12W-06A01 S	07 10 58		269.4	296.4	27.0	786.0	29.10
		06N/12W-06A01 S	08 09 60		262.0	311.3	29.8	721.0	24.20
		06N/12W-06A01 S	06 26 62		290.3	319.2	28.9	679.0	23.50
		06N/12W-07A01 S	08 15 55		285.2	365.5	80.3	156.0	1.90
		06N/12W-07A01 S	03 12 57		234.1	308.9	24.8	144.0	5.80
		06N/12W-07A01 S	03 09 61		297.0	409.0	112.0	144.0	1.30
		06N/12W-07A01 S	04 19 61		307.0	380.0	73.0	162.0	2.20
		06N/12W-07A02 S	10 15 54		275.0	370.0	95.0	450.0	4.70
		06N/12W-07A02 S	03 13 57		279.5	322.2	42.7	312.0	7.30
		06N/12W-07A02 S	03 22 61		293.8	320.0	26.2	136.0	5.20
		06N/13W-01F01 S	20					50.0	
		06N/13W-02R01 S	07 22 63					12.0	
		06N/13W-02Q02 S	07 30 63					30.0	
		06N/13W-03P01 S	05 29 63					5.0	
		06N/13W-10R01 S	07 18 63					60.0	
		06N/13W-11F02 S	09					6.0	
		06N/13W-12H01 S	07 13 50		18.0	110.0	92.0	60.0	0.19
		07N/12W-04H01 S	11	Q				18.0	
		07N/12W-04Z02 S	09	Q				144.0	
		07N/12W-09E01 S	08 13 58		92.0	117.0	25.0	1200.0	48.00
		07N/12W-09E01 S	09 03 58		61.0	112.0	31.0	800.0	25.81
		07N/12W-09E01 S	09 16 58		74.0			800.0	
		07N/12W-09E01 S	10 17 58		84.6	106.8	22.2	878.0	39.55
		07N/12W-09E01 S	07 14 59		103.6	126.2	22.6	982.0	43.45
		07N/12W-09E01 S	07 14 59		103.6	131.2	27.6	1190.0	43.12
		07N/12W-09E01 S	04 25 62		81.8	118.4	36.6	1139.0	31.12
		07N/12W-09E01 S	02 04 65		98.5	127.4	28.9	1001.0	34.64
		07N/12W-09E01 S	10 25 67		128.0	151.1	23.1	960.0	41.56

115-237

GO-7

GO-8

Prog. Area: Watershed-Geol.
Prep. By: G. Lipscomb
Date: 27 July 77

OUTPUT DESCRIPTION
Page 1 of 2

OUTPUT TITLE: TABLE OF WELL LOG DATA

OUTPUT FORM: Printout/Data Display

OUTPUT DESCRIPTION: A table summarizing well log data for individual well. (See attached.)

USER(s): Hydrologist; Geologist; Watershed Specialist; Natural Resource Specialist; etc.

LOCATION(s): SO's; DO's; RAH's; etc.

USAGE: As input to URA, EAR's, ES's, activity plans, and project design.

ACCESS LIMITATIONS: None

RESPONSE TIMES: DESIRED: 1 to 3 hours REQUIRED: 1 day

FREQUENCY OF PRODUCTION: Weekly for RAH/DO specialists to quarterly for others.

DEPENDENCIES: None

REQUEST PARAMETERS: State, Administrative (100-0004) or State, Geographic (100-0690); District, Administrative (100-0543); Number, Ground-Water Site (145-5149)

GD-8

OUTPUT DESCRIPTION
Page 2 of 2

OUTPUT TITLE: TABLE OF WELL LOG DATA

SORT ORDER: Identical to sequence of request parameters

ESTIMATED VOLUME: 1 to 3 copies per request with 1 to 5 pages/copy

COMPUTATIONS/PROCESSES: None

ACCURACY: NA

SCALE: NA

ANNOTATIONS: NA

LEGEND: NA

REMARKS: None

TABLE OF WELL LOG DATA

Geology 0-8

Site Number	A-150 1/2-140 1/2-155 abc 99W-06-H	(5149)	Altitude of Land Surface	20000.00 Feet	(0431)
Date Drilled	09-10-1976	(5184)	Casing Diameter	6 Inches	(5163)
Name of Driller	Smith, Joe.E.	(5185)	Period Water-Level Records Avail.	1940-45; 1960-76	
Depth Drilled	1000 Feet	(5180)	Owner or Name	Brown; John A.	(5153)
Depth Cased	500 Feet	(5173)	State	06	(0004)
Depth Well	500 Feet	(5174)	District	01	(0543)
Perforated Interval	400-450 Feet	(5162)			

(5188 & 5189)	Thickness (Feet) (5192)	Depth Bottom (Feet) (5191)	Depth Top (Feet) (5190)
Surface Soil	25	25	0
Clay and Fine Sand	22	202	180
Gravel and Soft Clay	23	383	360
Gravel, Sand, and Some Clay	16	536	520
Gravel	29	565	536
Gravel and Sand	10	575	565
Sand and Clay	15	590	575
Clay	10	600	590

WS-246

GO-8

GO-9

Prog. Area: Watershed-Geol.
Prep. By: G. Lipscomb
Date: 27 July 77

OUTPUT DESCRIPTION
Page 1 of 2

OUTPUT TITLE: TABLE OF DESCRIPTIVE SPRING DATA

OUTPUT FORM: Printout/Data Display

OUTPUT DESCRIPTION: A table summarizing information for a spring (see attached).

USER(s): Hydrologist; Geologist; Watershed Specialist; Natural Resource Specialist; etc.

LOCATION(s): SO's; DO's; RAH's; etc.

USAGE: As input to URA, EAR's, ES's, activity plans, and project design.

ACCESS LIMITATIONS: None

RESPONSE TIMES: DESIRED: 1 to 3 hours REQUIRED: 1 day

FREQUENCY OF PRODUCTION: Weekly for RAH/DO specialists to quarterly for others.

DEPENDENCIES: None

REQUEST PARAMETERS: State, Administrative (100-0004) or State, Geographic (100-0690); District, Administrative (100-0543); Number, Ground-Water Site (145-5149)

WS-241

GO-9

OUTPUT DESCRIPTION
Page 2 of 2

OUTPUT TITLE: TABLE OF DESCRIPTIVE SPRING DATA

SORT ORDER: Identical to sequence of request parameters

ESTIMATED VOLUME: 1 to 3 copies per request with 1 to 3 pages/copy

COMPUTATIONS/PROCESSES: None

ACCURACY: NA

SCALE: NA

ANNOTATIONS: NA

LEGEND: NA

REMARKS: None

TABLE OF DESCRIPTIVE SPRING DATA

Statè::(0004) (0690) District: (0543)

Site Number	Owner or Name	Date Meaured (Disch)	Discharge (GPM)	Method Measured	Permanence	Water Use	Improvements	CHEMICAL ANALYSES	Altitute of LSD (Feet)
(5149)	(5153)	(5145)	(53I6 & 5315)	5146)	(5110)	(5186)	(5108)	(5157)	(0431)
04N/25W-18KS1 S	Tuckerman	12/ /43	1,97			U		P	275
04N/25W-18QS2 S	Tuckerman					U		P	225
04N/25W-18QS3 S	Tuckman					U			250
04N/26W-04PS1 S									1,750
04N/26W-13HS2 S	Flynn	10/ /67	.50						675

115-243

GO-10

Prog. Area: Watershed-Geol.
Prep. By: G. Lipscomb
Date: 27 July 77

OUTPUT DESCRIPTION
Page 1 of 2

OUTPUT TITLE: WATER-LEVEL CONTOUR MAP

OUTPUT FORM: Map/Graphic Display

OUTPUT DESCRIPTION: A graphic display of isolines of equal altitude of ground-water surface within a planning area. (See attached.)

USER(s): Hydrologist; Geologist; Watershed Specialist; Planners; etc.

LOCATION(s): SO's; DO's; RAH's; etc.

USAGE: As input to URA Step 2, EAR's, ES's, activity plans, and project design.

ACCESS LIMITATIONS: None

RESPONSE TIMES: DESIRED: 1 to 3 days REQUIRED: 1 week

FREQUENCY OF PRODUCTION: Monthly for RAH/DO specialists to quarterly for others.

DEPENDENCIES: None

REQUEST PARAMETERS: State, Administrative (100-0004) or State, Geographic (100-0690); District, Administrative (100-0543); Planning Unit (100-1075); Name, Ground-Water Basin (145-5431).

WS-244

GO-10

OUTPUT DESCRIPTION
Page 2 of 2

OUTPUT TITLE: WATER-LEVEL CONTOUR MAP

SORT ORDER: Identical to sequence of request parameters

ESTIMATED VOLUME: 1 to 3 copies per request with 1 page/copy

COMPUTATIONS/PROCESSES: Computation required for (1) location and plotting of well sites within a planning or inventory area on map, (2) altitude of water surface at each site on a specified date, and (3) isolines of equal water surface altitude interpolated graphically from well site water surface altitude.

ACCURACY: Within 5%

SCALE: 1:24,000 and 1:125,000

ANNOTATIONS: (See attached output sample.)

LEGEND: Standard map symbols to depict isolines, well sites and boundary of ground-water basin (see legend on attached sample).

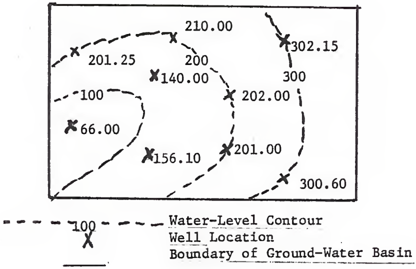
REMARKS: None

WATER-LEVEL CONTOUR MAP

State (0004) (0690)
District (0543)
P. U. (1075)
Name, Ground-Water Basin (5431)

Date: (7308)

Water-Level Contour Map
1976



WS-246

GO-11

Prog. Area: Watershed-Geol.
Prep. By: G. Lipscomb
Date: 27 July 77

OUTPUT DESCRIPTION
Page 1 of 2

OUTPUT TITLE: HYDROGRAPH FOR WELL

OUTPUT FORM: Plot/Graphic Display

OUTPUT DESCRIPTION: A plot of depth to water in a well versus month of year. (See attached.)

USER(s): Hydrologist; Geologist; Watershed Specialist; Natural Resource Specialist; Planners; etc.

LOCATION(s): SO's; DO's; RAH's; etc.

USAGE: As input to URA, EAR's, ES's, activity plans, and project design.

ACCESS LIMITATIONS: None

RESPONSE TIMES: DESIRED: 1 to 3 days REQUIRED: 1 week

FREQUENCY OF PRODUCTION: Monthly for RAH/DO specialists to quarterly for others.

DEPENDENCIES: None

REQUEST PARAMETERS: State, Administrative (100-0004) or State, Geographic (100-0690); District, Administrative (100-0543); Planning Unit (100-1075); Number, Ground-Water Site (145-5149)

WS-347

GD-11

OUTPUT DESCRIPTION
Page 2 of 2

OUTPUT TITLE: HYDROGRAPH FOR WELL

SORT ORDER: Identical to sequence of request parameters

ESTIMATED VOLUME: 1 to 3 copies per request with 1 page/copy

COMPUTATIONS/PROCESSES: Select well record of interest and extract depth to water values for each month of record for year of interest and plot values versus month (see attached sample output).

ACCURACY: NA

SCALE: NA

ANNOTATIONS: (See attached copy of sample output.)

LEGEND: Standard map symbols to depict depth to water on plot together with line connecting plotted points (see attached sample).

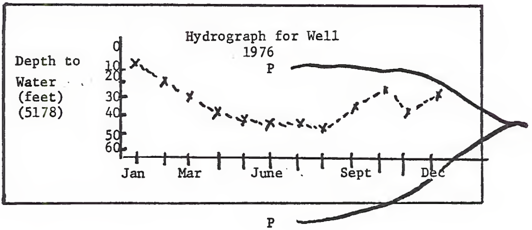
REMARKS: None

115-248

HYDROGRAPH FOR WELL

State (0004) (0690)
District (0543)
P. U. (1075)
Number, Well (5149)

Date: (7308)



(from 5134)

ws-249

GO- 12

Prog. Area: Watershed-Geol.
Prep. By: G. Lipscomb
Date: 27 July 77

OUTPUT DESCRIPTION
Page 1 of 2

OUTPUT TITLE: TOPOGRAPHY OVERLAY

OUTPUT FORM: Map/Graphic Display

OUTPUT DESCRIPTION: A graphic display of isolines of equal land surface elevation. (See attached.)

USER(s): Geologists; Geomorphologist; Natural Resource Specialist; Planners; etc.

LOCATION(s): SO's; DO's; RAH's; etc.

USAGE: As input to Step 2 URA.

ACCESS LIMITATIONS: None

RESPONSE TIMES: DESIRED: 1 to 3 days REQUIRED: 1 week

FREQUENCY OF PRODUCTION: Monthly for RAH/DO specialists to quarterly for others.

DEPENDENCIES: None

REQUEST PARAMETERS: State, Administrative (100-0004) or State, Geographic (100-0690); District, Administrative (100-0543); Planning Unit (100-1075)

WS-35C

GO-12

OUTPUT DESCRIPTION
Page 2 of 2

OUTPUT TITLE: TOPOGRAPHY OVERLAY

SORT ORDER: Identical to sequence of request parameters

ESTIMATED VOLUME: 1 to 3 copies per request with 1 page/copy

COMPUTATIONS/PROCESSES: None

ACCURACY: Within 5%

SCALE: Variable (filed at 1:24,000, 1:62,500 or 1:125,000).

ANNOTATIONS: (See attached sample output.)

LEGEND: Standard map symbols for a topographic map.

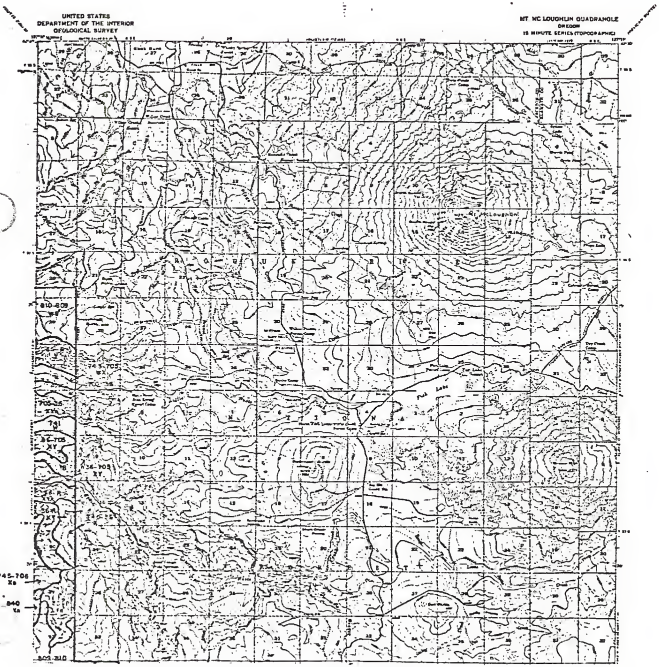
REMARKS: None

WS-251

TOPOGRAPHY OVERLAY

State (0004) (0690)
District (0543)
P. U. (1075)

Date (7308)



115-252

GO-13

Prog. Area: Watershed-Geol.
Prep. By: G. Lipscomb
Date: 27 July 77

OUTPUT DESCRIPTION
Page 1 of 2

OUTPUT TITLE: TOPOGRAPHY TABLE

OUTPUT FORM: Printout

OUTPUT DESCRIPTION: A table summarizing location and elevation of significant topographic points (see attached).

USER(s): Geologist; Geomorphologist; Watershed Specialist; Planner; etc. LOCATION(s): SO's; DO's; RAH's; etc.

USAGE: As input to Step 2 URA.

ACCESS LIMITATIONS: None

RESPONSE TIMES: DESIRED: 1 to 3 days REQUIRED: 1 week

FREQUENCY OF PRODUCTION: Monthly for RAH/DO specialists to quarterly for others.

DEPENDENCIES: None

REQUEST PARAMETERS: State, Administrative (100-0004) or State, Geographic (100-0690); District, Administrative (100-0543); Planning Unit (100-1075).

WS-253

GO-13

OUTPUT DESCRIPTION
Page 2 of 2

OUTPUT TITLE: TOPOGRAPHY TABLE

SORT ORDER: Identical to sequence of request parameters

ESTIMATED VOLUME: 1 to 3 copies per request with 1 page/copy

COMPUTATIONS/PROCESSES: None

ACCURACY: NA

SCALE: NA

ANNOTATIONS: NA

LEGEND: NA

REMARKS: None

WS-254

TOPOGRAPHY TABLE

State (0004) (0690)
District (0543)
P. U. (1075)

Date: (7308)

Number of Significant Point	Location (Sect., T. & R.)	Elevation (Feet Above MSL)
Mt. McLoughlin	5.14; 365.; 04E.	6000
(5198)	(2501/1695/ 1699)	(0431)

115-255

Prog. Area: Watershed-Geol.
Prep. By: G. Lipscomb
Date: 25 Aug. 77

GO-14

OUTPUT DESCRIPTION
Page 1 of 2

OUTPUT TITLE: Narrative for Geology

OUTPUT FORM: Narrative

OUTPUT DESCRIPTION: A Step 2 URA narrative describing the Geology of a planning area (See Attached).

USER(s): Planners; Geologist; Natural Resource Specialist; etc.

LOCATION(s): RAHs; DOs; SOs; etc.

USAGE: As input to Step 2 of URA.

ACCESS LIMITATIONS: None

RESPONSE TIMES: DESIRED: 1 to 3 days REQUIRED: 1 week

FREQUENCY OF PRODUCTION: Monthly for specialists at RAH and DO to annually for those at SOs.

DEPENDENCIES: None

REQUEST PARAMETERS: State, Administrative (100-0004) or State, Geographic (100-0690); District, Administrative (100-0543) Planning Unit (100-1075)

WS-256

GO-14

OUTPUT DESCRIPTION
Page 2 of 2

OUTPUT TITLE: Narrative for Geology

SORT ORDER: Identical to Request Parameters

ESTIMATED VOLUME: 1 to 3 copies per request

COMPUTATIONS/PROCESSES:

NA

ACCURACY:

NA

SCALE:

NA

ANNOTATIONS:

NA

LEGEND:

NA

REMARKS:

None

WS-257

NARRATIVE FOR GEOLOGY

State: {0004} {0690}　　　Date: {8518}
District: {0543}
Planning Unit: {1075}

Quaternary gravels are located . . . .
(5201)

The Albert Formation consists of . . . .
(5201)

Bertim Sandstone is situated . . . .
(5201)

{ETC.}

WS-258

GO-15

Prog. Area: Watershed-Geol.
Prep. By: G. Lipscomb
Date: 25 Aug. 77

OUTPUT DESCRIPTION
Page 1 of 2

OUTPUT TITLE: Other Limiting Physical Factors Narrative

OUTPUT FORM: Narrative

OUTPUT DESCRIPTION: A Step 2 URA narrative describing geologic hazards which are limiting factors for a planning area (See Attached).

USER(s): Planners; Geologists; Natural Resource Specialists; etc.

LOCATION(s): RAHs; DOs; SOs; etc.

USAGE:

As input to Step 2 of URA.

ACCESS LIMITATIONS:

None

RESPONSE TIMES: DESIRED: 1 to 3 days

REQUIRED: 1 week

FREQUENCY OF PRODUCTION:

Monthly for specialists at RAH and DO to annually for those at SO.

DEPENDENCIES:

None

REQUEST PARAMETERS: State, Administrative (100-0004) or State, Geographic (100-0690); District, Administrative (100-0543); Planning Unit (100-1075)

WS-259

GO-15

OUTPUT DESCRIPTION
Page 2 of 2

OUTPUT TITLE: Other Limiting Physical Factors Narrative

SORT ORDER: Identical to Request Parameters

ESTIMATED VOLUME: 1 to 3 copies per request

COMPUTATIONS/PROCESSES:

NA

ACCURACY: NA

SCALE:

NA

ANNOTATIONS:

NA

LEGEND: NA

REMARKS: None

WS-260

OTHER LIMITING PHYSICAL FACTORS NARRATIVE

State: {0004} {0690} **Date:** {8518}
District: {0543}
Planning Unit: {1075}

Geologic hazards are located in the . . . . and they consist of. . . . .

(5202)

Historic earthquakes include . . . . which occured during . . . .

(5202)

WS-261

Prog. Area: Watershed-Geol.
Prep. By: G. Lipscomb
Date: 25 Aug 77

GO-16

OUTPUT DESCRIPTION
Page 1 of 2

OUTPUT TITLE: Topography Narrative

OUTPUT FORM: Narrative

OUTPUT DESCRIPTION: A Step 2 URA narrative describing the topography of a planning area (See attached).

USER(s): Planners; Geologists; Geomorphologists; etc.

LOCATION(s): RAHs; DOs; SOs; etc.

USAGE: As input to Step 2 of URA.

ACCESS LIMITATIONS: None

RESPONSE TIMES: DESIRED: 1 to 3 days REQUIRED: 1 week

FREQUENCY OF PRODUCTION: Monthly for specialists at RAH and DO to annually for those at SO.

DEPENDENCIES: None

REQUEST PARAMETERS: State, Administrative (100-0004) or State, Geographic (100-0690); District, Administrative (100-0543); Planning Unit (100-1075)

WS-262

GO-16

OUTPUT DESCRIPTION
Page 2 of 2

OUTPUT TITLE: Topography Narrative

SORT ORDER: Identical to Request Parameters

ESTIMATED VOLUME: 1 to 3 copies per request

COMPUTATIONS/PROCESSES:

NA

ACCURACY: NA

SCALE:

NA

ANNOTATIONS:

NA

LEGEND:

NA

REMARKS:

None

TOPOGRAPHY NARRATIVE

State: {0004} {0690} Date: {8518}
District: {0543}
Planning Unit: {1075}

Topographic characteristics of the area include . . . .
(5200)

Significant points of interest include . . . .
(5200)

Slope vary from . . . .
(5200)

WS-264

Prog. Area: Watershed-Water
Prep. By: G. Lipscomb
Date: 27 July 77

WO-1

OUTPUT DESCRIPTION
Page 1 of 2

OUTPUT TITLE: Water Resources Inventory Map By Basin

OUTPUT FORM: Map/Graphic Display

OUTPUT DESCRIPTION: A graphic display of water resources information by basin. (see attached)

USER(s): Hydrologist; Watershed Specialist; Natural Resource Specialist; etc.

LOCATION(s): SO's, DO's ; RAH's, etc.

USAGE: As input to URA and activity planning

ACCESS LIMITATIONS: None

RESPONSE TIMES: DESIRED: 1 to 3 days REQUIRED: 1 week

FREQUENCY OF PRODUCTION: Monthly for RAH/DO specialists to quarterly for others

DEPENDENCIES: None

REQUEST PARAMETERS: State, Administrative (100-0004) or State Geographic (100-0690); District, Administrative (100-0543); Code, Watershed (145-5304) or a set of coordinates (e.g. latitude (100-1236) and longitude (100-1237)).

WS-264.1

WO-1

OUTPUT DESCRIPTION
Page 2 of 2

OUTPUT TITLE: Water Resources Inventory Map by Basin

SORT ORDER: Identical to sequence of request parameter

ESTIMATED VOLUME: 1 to 3 copies per request with 1 page/copy

COMPUTATIONS/PROCESSES: None

ACCURACY: within 5%

SCALE: Variable (filed at 1:24,000, 1:62,500, or 1:125,000)

ANNOTATIONS: (See attached copy of output sample)

LEGEND: Standard map symbols for boundaries of basin/watershed, gauging stations, etc. (see legend on attached sample)

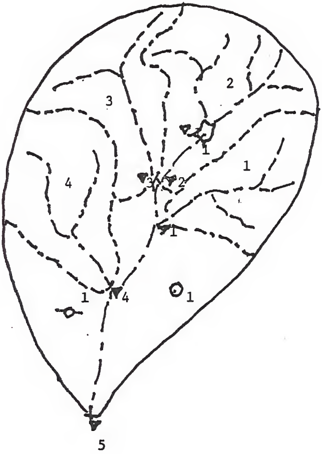
REMARKS: None

WS-265

WO-1

WATER RESOURCES INVENTORY MAP BY BASIN

State: (0004) (0690) Date: (7308)
District: (0543)
Basin Name: (5304)



Legend

________	Basin boundary
—.—	Watershed boundary
▼1	Stream gaging station number 1 (5303)
1	Watershed number (5304)
◯	Reservoir No. 1
▽1	Reservoir gaging station number 1 (5303)
●1	Well Monitoring station number 1
—o—1	Hyromet station number 1

WS-266

Prog. Area: Watershed-Water
Prep. By: G. Lipscomb
Date: 27 July 77

WO-2

OUTPUT DESCRIPTION
Page 1 of 2

OUTPUT TITLE: Table of Watershed Characteristics

OUTPUT FORM: Printout/Data Display

OUTPUT DESCRIPTION: A table summarizing watershed characteristics for an individual watershed.

USER(s): Hydrologist; Watershed Specialist, etc.

LOCATION(s): SC; SO's; DO's; RAH's, etc

USAGE: As input to URA, EAR's, ES's, activity plans, and project designs

ACCESS LIMITATIONS: None

RESPONSE TIMES: DESIRED: 1 to 3 hours REQUIRED: 1 day

FREQUENCY OF PRODUCTION: Weekly for RAH/DO specialists to quarterly for others.

DEPENDENCIES: None

REQUEST PARAMETERS: State, Administrative (100-0004) or State, Geographic (100-0690); District, Administrative (100-0543); Code, Watershed (145-5304)

WS-267

WO-2

OUTPUT DESCRIPTION
Page 2 of 2

OUTPUT TITLE: Table of Watershed Characteristics

SORT ORDER: Identical to sequence of request parameters

ESTIMATED VOLUME: 1 to 3 copies per request with 1 page/copy

COMPUTATIONS/PROCESSES: Computation required for data elements of circularity ratio, relief, and mean elevation for each watershed. These would be computed from other direct input data elements.

ACCURACY: N/A

SCALE: N/A

ANNOTATIONS: N/A

LEGEND: N/A

REMARKS: None

WS-268

TABLE OF WATERSHED CHARACTERISTICS

State: (0004) (0690)
District: (0543)

Watershed Name	Area	Length	Width	Circularity Ratio	Maximum Elevation	Minimum Elevation	Relief
(5304) (5416)	(5321)	(5323)	(5324)	(5325)	(7036)	(7037)	(5326)

WS - 369

Mean Elevation	Mean Slope	Orientation
(5333)	(5330)	(5329)

Prog. Area: Watershed-Water
Prep. By: G. LIpscomb
Date: 27 July 77

WO-3

OUTPUT DESCRIPTION
Page 1 of 2

OUTPUT TITLE: Table of Hydrologic Characteristics of Soils

OUTPUT FORM: Printout/Data Display

OUTPUT DESCRIPTION: A table of the hydrologic characteristics of soils by vegetation sub-type for a specific watershed (see attached).

USER(s): Hydrologist; Natural Resource Specialist, etc.

LOCATION(s): SC; SO's; DO's; RAH's, etc.

USAGE: As input to URA, EAR's, Es's, activity plans and project designs.

ACCESS LIMITATIONS: None

RESPONSE TIMES: DESIRED: 1 to 3 hours REQUIRED: 1 day

FREQUENCY OF PRODUCTION: Weekly for RAH/DO specialists to quarterly for others.

DEPENDENCIES: None

REQUEST PARAMETERS: State, Administrative (100-0004); or State, Geographic (100-0690); District, Administrative (100-0543); Code, Watershed (145-5304) Vegetation sub-type (100-2706)

WS-270

WO-3

OUTPUT DESCRIPTION
Page 2 of 2

OUTPUT TITLE: Table of Hydrologic Characteristics of Soils

SORT ORDER: Identical to sequence of request parameters plus Hydrologic Soil Group (141-4562)

ESTIMATED VOLUME: 1 to 3 copies per request with 1 page/copy

COMPUTATIONS/PROCESSES: None

ACCURACY: N/A

SCALE: N/A

ANNOTATIONS: N/A

LEGEND: N/A

REMARKS: None

WS-271

TABLE OF HYDROLOGIC CHARACTERISTICS OF SOILS

State: (0004) (0690)
District: (0543)
Watershed: (5304)

WS-372

Vegetation Sub-type	Hydrologic Soil Group	Area	Infiltration Rate	Soil Water Stor. Capacity
(2706)	(4562)	(5357)	(5354)	(5355)

WO-3

Prog. Area: Watershed-Water
Prep. By: G. Lipscomb
Date: 28 July 77

WO-4

OUTPUT DESCRIPTION
Page 1 of 2

OUTPUT TITLE: Table of Hydrologic Characteristics for Vegetation Sub-Type

OUTPUT FORM: Printout/Data Display

OUTPUT DESCRIPTION: A table summarizing cover data for vegetation sub-types within a watershed (see attached).

USER(s): Hydrologist; Watershed Specialist; Natural Resource Specialist; etc.

LOCATION(s): SC; SO's; DO's; RAH's; etc.

USAGE: As input to URA, EAR's, ES's, activity plans, and project designs.

ACCESS LIMITATIONS: None

RESPONSE TIMES: DESIRED: 1 to 3 hours REQUIRED: 1 day

FREQUENCY OF PRODUCTION: Weekly for RAH/DO specialists to quarterly for others

DEPENDENCIES: None

REQUEST PARAMETERS: State, Administrative (100-0004) or State Geographic (100-0690); District, Administrative (100-0543); Code, Watershed (145-5304) Vegetation Sub-type (100-2706)

WS-273

WO-4

OUTPUT DESCRIPTION
Page 2 of 2

OUTPUT TITLE: Table of Hydrologic Characteristics for Vegetation Sub-Type

SORT ORDER: Identical to sequence of request parameters

ESTIMATED VOLUME: 1 to 3 copies per request with 1 page/ copy

COMPUTATIONS/PROCESSES: Computation of weighted values for percent vegetation cover by type and basal area per acre.

ACCURACY: N/A

SCALE: N/A

ANNOTATIONS: N/A

LEGEND: N/A

REMARKS: None

WS-274

TABLE OF HYDROLOGIC CHARACTERISTICS FOR VEGETATION SUB-TYPE

State: (0004) (0690)
District: (0543)
Watershed: (5304)

WS-375

Vegetation Sub-Type	Area	Percent Cover					Basal Area
		Vegetation	Litter	Rock	Bare	Total	
(2706)	(5357)	(0750)	(0751)	(0752) (0753)	(0754)	?	(5781)

P from

Prog. Area: Watershed-Water
Prep. By: G. Lipscomb
Date: 28 July 77

WO-5

OUTPUT DESCRIPTION
Page 1 of 2

OUTPUT TITLE: Channel and Stream Information Map

OUTPUT FORM: Map/Graphic Display

OUTPUT DESCRIPTION: A graphic display of stream orders, stream cross-sections, and stream reaches by watershed (see attached)

USER(s): Hydrologist; Watershed Specialist; Engineer, etc.

LOCATION(s): SC; SO's, DO's; RAH's; etc.

USAGE: As input to URA, EAR's, ES's, activity plans and project designs.

ACCESS LIMITATIONS: None

RESPONSE TIMES: DESIRED: 1 to 3 hours REQUIRED: 1 day

FREQUENCY OF PRODUCTION: Weekly for RAH/Do specialists to quarterly for others

DEPENDENCIES: None

REQUEST PARAMETERS: State, Administrative (100-0004) or State Geographic (100-0690); District, Administrative (100-0543); Code, Watershed (145-5304) or a set of coordinates (eg latitude (100-1236) and longitude (100-1237)).

WS-276

WO-5

OUTPUT DESCRIPTION
Page 2 of 2

OUTPUT TITLE: Channel and Stream Information Map

SORT ORDER: Identical to sequence of request parameters

ESTIMATED VOLUME: 1 to 3 copies per request with 1 page/copy

COMPUTATIONS/PROCESSES: None

ACCURACY: within 5%

SCALE: 1:24,000 or 1:62,500

ANNOTATIONS: (see attached sample output)

LEGEND: Standard map symbols to depict stream location data (see legend on attached sample)

REMARKS: None

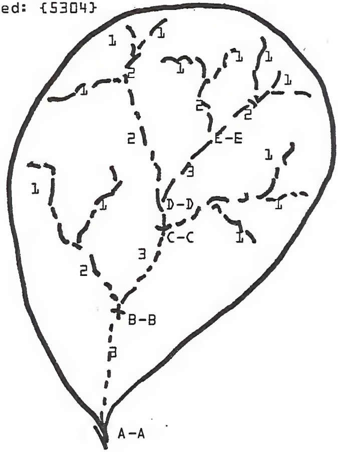
WS-277

WO-5

CHANNEL AND STREAM INFORMATION MAP

State: {0004} {0690}
District: {0543}
Watershed: {5304}

Date: {7308}



Legend

--1--	Stream of first order
--2--	Stream of second order
--3--	Stream of third order
A-A	Cross-section of stream at mouth of basin
B-B	Reach of Stream between A-A and B-B
——	Basin boundary
⟶	Direction of flow

WS-278

Prog. Area: Watershed-Water
Prep. By: G. Lipscomb
Date: 28 July 77

WO-6

OUTPUT DESCRIPTION
Page 1 of 2

OUTPUT TITLE: Cultural Developments and Treatments Map

OUTPUT FORM: Map/Graphic Display

OUTPUT DESCRIPTION: A graphic display of the location of land treatments, development projects, timber sale areas, etc. (see attached)

USER(s): Watershed Specialists; Natural Resource Specialist; Planners, etc.

LOCATION(s): SO's; DO's; RAH's, etc

USAGE: As input to Step 2 URA

ACCESS LIMITATIONS: None

RESPONSE TIMES: DESIRED: 1 to 3 days REQUIRED: 1 week

FREQUENCY OF PRODUCTION: monthly for RAH/DO specialists to annually for others

DEPENDENCIES: None

REQUEST PARAMETERS: State, Administrative (100-0004) or State Geographic (100-0690); District, Administrative (100-0543); Code, Watershed (145-5304) or a set of coordinates (eg latitude (100-1236) or Longitude (100-1237)).

WS-279

WO-6

OUTPUT DESCRIPTION
Page 2 of 2

OUTPUT TITLE: Cultural Developments and Treatments Map

SORT ORDER: Identical to sequence of request parameters

ESTIMATED VOLUME: 1 to 3 copies per request with 1 page/copy

COMPUTATIONS/PROCESSES: None

ACCURACY: within 5%

SCALE: Variable (filed at 1:24,000, 1:62,500 or 1:125,000)

ANNOTATIONS: (see attached sample output)

LEGEND: Standard map symbols to depict the location of treatments/developments (see legend on attached sample)

REMARKS: None

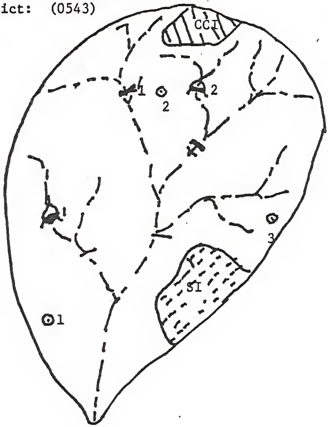
WS-380

WO-6

CLUTURAL DEVELOPMENTS AND TREATMENTS MAP

State: (0004) (0690)
District: (0543)

Watershed: (5304)
Date: (7308)



Legend

⊙1 Well Number 1

1 Detention Dam Number 1

1 Reservoir Number 1

SI Seeding Number 1

CCI Clear Cut Number 1

—— Basin boundary

WS-281

Prog. Area: Watershed-Water
Prep. By: G. Lipscomb
Date: 28 July 77

WO-7

OUTPUT DESCRIPTION
Page 1 of 2

OUTPUT TITLE: Table of Watershed Relationships

OUTPUT FORM: Printout/Data Display

OUTPUT DESCRIPTION: A table summarizing watershed characteristics for a specified watershed (see attached)

USER(s): Hydrologist; Watershed Specialist; Natural Resource Specialist, etc.

LOCATION(s): SC; SO's; DO's; RAH's; etc.

USAGE: As input to URA, EAR's, ES's, activity plans, and project design

ACCESS LIMITATIONS: None

RESPONSE TIMES: DESIRED: 1 to 3 hours REQUIRED: 1 day

FREQUENCY OF PRODUCTION: Weekly for RAH/DO specialist to quarterly for others

DEPENDENCIES: None

REQUEST PARAMETERS: State, Administrative (100-0004) or State, Geographic (100-0690); District, Administrative (100-0543); Code, Watershed (145-5304)

WS-282

WO-7

OUTPUT DESCRIPTION
Page 2 of 2

OUTPUT TITLE: Table of Watershed Relationships

SORT ORDER: Identical to sequence of request parameters

ESTIMATED VOLUME: 1 to 3 copies per request with 1 page per copy

COMPUTATIONS/PROCESSES: Computation of data elements for relative area, relative watershed area, relative height, mean angle of junction, drainage density and bifurcation ratio using direct input data elements for the watershed.

ACCURACY: N/A

SCALE: N/A

ANNOTATIONS: N/A

LEGEND: N/A

REMARKS: None

WS-283

TABLE OF WATERSHED RELATIONSHIPS
State: (0004) (0690)
District: (0543)

WS-384

Watershed Name	Contour	Relative Area	Percent Above Contour	Relative Watershed Area	Relative Height	Mean Angle of Junction
(5304) (5416)	(5331)	(5322)	(5332)	(5342)	(5343)	(5341)

Watershed Name	Stream Order	Number of Segments	Total Miles	Drainage Density	Birurcation Ratio	
(5304) (5416)	(5335)	(5336)	(5338)	(5337)	(5339)	

WO-7

Prog. Area: Watershed-Water
Prep. By: G. Lipscomb
Date: 28 July 77

WO-8

OUTPUT DESCRIPTION
Page 1 of 2

OUTPUT TITLE: Table of Channel Characteristics

OUTPUT FORM: Printout/Data Display

OUTPUT DESCRIPTION: A table summarizing channel characteristics for a specified watershed (see attached)

USER(s): Hydrologist; Watershed Specialists; Engineers, etc.

LOCATION(s): SC; SO's; DO's; RAH's, etc

USAGE: As input to URA, EAR's, ES's activity plans and project designs

ACCESS LIMITATIONS: None

RESPONSE TIMES: DESIRED: 1 to 3 hours REQUIRED: 1 day

FREQUENCY OF PRODUCTION: Weekly for RAH/DO specialists to quarterly for others

DEPENDENCIES: None

REQUEST PARAMETERS: State, Administrative (100-0004) or State Geographic (100-0690); District, Administrative (100-0543); Code, Watershed (145-5304)

WS-285

WO-8

OUTPUT DESCRIPTION
Page 2 of 2

OUTPUT TITLE: Table of Channel Characteristics

SORT ORDER: Identical to sequence of request parameter

ESTIMATED VOLUME: 1 to 3 copies per request with 1 to 5 pages/copy

COMPUTATIONS/PROCESSES: Computation of data element for hydraulic radius using direct input data elements for the watershed.

ACCURACY: N/A

SCALE: N/A

ANNOTATIONS: N/A

LEGEND: N/A

REMARKS: None

WS-286

1115-387

TABLE OF CHANNEL CHARACTERISTICS

State (0004) (0690)

WATERSHED NAME (5304) (5416)

District (0543)

REACH	X-SECTION	DATUM	AREA	W.P.	H.R.	MANNING N	GRADIENT	
A-B	A-A		72	18	4	.030	.003	
D-C	B-B		100	50	2	.040	.002	
C-D	C-C		93	31	3	.035	.004	
	D-D							
(5351)	(5347)	(5350)	(5346)	(5349)	(5352)	(5348)	(5345)	

Prog. Area: Watershed-Water
Prep. By: G. Lipscomb
Date: 28 July 77

WO-9

OUTPUT DESCRIPTION
Page 1 of 2

OUTPUT TITLE: Table of Daily Stream Discharge Data

OUTPUT FORM: Printout/Data Display

OUTPUT DESCRIPTION: A table summarizing gauging station site infomration and mean daily discharge for a specified gauging station (see attached).

USER(s): Hydrologist; Engineers; Watershed Specialists, etc.

LOCATION(s): SC's; SO's; DO's; RAH's; etc.

USAGE: As input to URA, EAR's, ES's, activity plans and project designs.

ACCESS LIMITATIONS: None

RESPONSE TIMES: DESIRED: 1 to 3 hours REQUIRED: 1 day

FREQUENCY OF PRODUCTION: Weekly for RAH/DO specialists to quarterly for others

DEPENDENCIES: None

REQUEST PARAMETERS: State, Administrative (100-0004) or State, Geographic (100-0690); District, Administrative (100-0543); Code, Watershed (145-5304); Number, Station Type (145-5303).

WS-288

OUTPUT DESCRIPTION
Page 2 of 2

OUTPUT TITLE: Table of Daily Stream Discharge Data

SORT ORDER: Identical to sequence of request parameter

ESTIMATED VOLUME: 1 to 3 copies per request with 1 page/copy

COMPUTATIONS/PROCESSES: Computation of mean daily discharge from recorded values (hourly, daily, etc.) and mean monthly discharge from mean daily discharge; also, display of extremes, average discharge, etc. for station (see attached sample)

ACCURACY: N/A

SCALE: N/A

ANNOTATIONS: N/A

LEGEND: N/A

REMARKS: None

WS-289

TABLE OF DAILY STREAM DISCHARGE DATA

WO-9

State--(0004)(0690)
Sun River Basin--(5304)
District--(0543) --,
06088300 Muddy Creek Near Vaughn, MT (Name for 5303)

Location--lat 47°37'30", long 111°38'05", in NW-1/4 NE-1/4 sec. 32, T.22N., R.1E., Cascade County, on left bank 50 ft. (15 m) downstream from bridge on county road and 6.2 mi (10.0 km) northwest of Vaughn.

Drainage area-- 282 mi^2 (730 km^2).

Period of Record--June 1968 to current year.

Gage--Water-stage recorder. Altitude of gage is 3,450 ft (1,052 m), from topographic map.

Average Discharge--7 years, 127 ft^3/s (3.60 m^3/s), 92,010 acre-ft/yr (113 hm^3/yr).

Extremes--Current year: Maximum discharge, 3,110 ft^3/s (88.1 m^3/s) May 7, gage height, 13.46 ft (4.103 m); minimum daily, 15 ft^3/s (0.425 m^3/s) Feb. 4.

Period of record: Maximum discharge, 3,110 ft^3/s (88.1 m^3/s) May 7, 1975, gage height, 13.46 ft. (4.103 m); minimum daily, 8.0 ft^3/s (0.23 m^3/s) Dec. 8, 1972.

Remarks--Records good except those for winter period, which are poor. Natural flow increased by wastage from Greenfields Irrigation Project. Diversions for irrigation of about 400 acres (1.62 km^2) above station. Pumped diversions from Muddy Creek above station in SW-1/4 sec. 2, T.22N., R.1W., to supplement water supply for Benton Lake Wildlife Refuge are listed below. Water-quality records for the current year are published in Section 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER TEAM
OCTOBER 1974 TO SEPTEMBER 1975 (MEAN VALUES)

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	133	64	43	34	18	38	41	127	119	276	410	203
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮
10	78	56	46	24	18	26	50	477	258	222	522	157
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮
20	70	53	38	37	27	37	561	117	1050	351	948	143
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮
30	63	44	32	22	--	35	142	74	136	222	206	127
31	63	--	33	20	--	40	--	141	--	402	206	--
TOTAL	2395	1631	1193	945	671	1067	4847	8196	8040	8379	12477	4644
	77.3	54.4	38.5	30.5	24.0	34.4	162	264	268	270	402	155
	133	65	46	37	36	42	957	2250	1050	764	948	207
	63	44	32	20	15	26	37	74	119	170	206	118
	4750	3240	2370	1870	1330	2120	9610	16260	15950	16620	24750	9210
	0	0	0	0	0	0	0	0	0	0	0	0

YR 1974 TOTAL 39000 MEAN 107 MAX 682 MIN 17 AC-+T 77360 (f) 0
YR 1975 TOTAL 54485 MEAN 149 MAX 2250 MIN 15 AC-+T 108100 (f) 0

f Diversions, in acre-feet, to Benton Lake, furnished by Fish and Wildlife Service.

Note--State-discharge relation affected by ice Nov. 27 to Apr. 12.

Prog. Area: Watershed-Water
Prep. By: G. Lipscomb
Date: 28 July 77

WO-10

OUTPUT DESCRIPTION
Page 1 of 2

OUTPUT TITLE: Stage - Discharge Table

OUTPUT FORM: Printout/Data Display

OUTPUT DESCRIPTION: A table summarizing current values for discharge versus stage at a gauging station (see attached)

USER(s): Hydrologist; Engineer; Watershed Specialist, etc. LOCATION(s): SO's; DO's; RAH's; etc.

USAGE: As input to compilation of strean discharge data used for URA, EAR's, ES's, activity plans, and project design.

ACCESS LIMITATIONS: None

RESPONSE TIMES: DESIRED: 1 to 3 hours REQUIRED: 1 day

FREQUENCY OF PRODUCTION: Weekly for RAH/DO hydrologist to quarterly for others

DEPENDENCIES: None

REQUEST PARAMETERS: State, Administrative (100-0004) or State, Geographic (100-0690); District, Administrative (100-0543); Code, Watershed (145-5304) Number, Station-Type (145-5303)

WS-291

WO-10

OUTPUT DESCRIPTION
Page 2 of 2

OUTPUT TITLE: Stage - Discharge Table

SORT ORDER: Identical to sequence of request parameter.

ESTIMATED VOLUME: 1 to 3 copies per request with 1 page/copy

COMPUTATIONS/PROCESSES: None

ACCURACY: N/A

SCALE: N/A

ANNOTATIONS: N/A

LEGEND: N/A

REMARKS: None

WS-292

STAGE-DISCHARGE TABLE MUDDY CREEK NEAR VAUGHN, MT.
(NAME FOR 5303)

State: (0004) (0690)
District: (0543) (5416)
Watershed: (5304)
Station: (5303)

Stage (5316) (1/100 Feet)	Discharge (5316) (1/10 Cfs)	Stage (1/100 Feet)	Discharge (1/10 Cfs)
1000.50	12.2		
1005.00	73.5		
1009.00	150.0		
ETC.			

(5315)

WS-293

W0-10

Prog. Area: Watershed-Water
Prep. By: G. Lipscomb
Date: 28 July 77

WO-11

OUTPUT DESCRIPTION
Page 1 of 2

OUTPUT TITLE: Table of Water Body Data

OUTPUT FORM: Printout/Data Display

OUTPUT DESCRIPTION: A table summarizing lake or reservoir water data and site information (see attached)

USER(s): Hydrologist; Watershed Specialist; Engineer, etc.

LOCATION(s): SC; SO's, DO's; RAH's; etc.

USAGE: As input to URA, EAR's, ES's, activity plans and project design

ACCESS LIMITATIONS: None

RESPONSE TIMES: DESIRED: 1 to 3 hours REQUIRED: 1 day

FREQUENCY OF PRODUCTION: Weekly for RAH/DO specialists to quarterly for others

DEPENDENCIES: None

REQUEST PARAMETERS: State, Administrative (100-0004) or State, Geographic (100-0690); District, Administrative (100-0543); Code, Watershed (145-5304) Number, Station type (145-5303)

WS-294

WO-11

OUTPUT DESCRIPTION
Page 2 of 2

OUTPUT TITLE: Table of Water Body Data

SORT ORDER: Identical to sequence for request parameters

ESTIMATED VOLUME: 1 to 3 copies per request with 1 page/copy

COMPUTATIONS/PROCESSES: Computation of change in storage for each month and at end of water year from recorded values (hourly, daily, etc.). Also display of extremes, period of record, etc., for station (see attached example).

ACCURACY: NA

SCALE: NA

ANNOTATIONS: NA

LEGEND: NA

REMARKS: None

WS-295

TABLE OF WATER BODY DATA

State (0004)(0690) Marias River Basin (5304) (5416)
District (0543) (5303) 06101300 Tiber Reservoir near Chester, MT (Name for 5303)

Location--Lat 48°19'06", long 111°05'27", in NW-1/4 sec. 33, T.30N., R.5E., Liberty County, in control house of river outlet tunnel at Tiber Dam on Marias River, 15 mi (24 km) southwest of Chester.

Drainage Area--4,923 mi^2 (12,751 km^2), of which 518 mi^2 (1,342 km^2) is probably noncontributing.

Period of Record--October 1955 to current year (monthend contents only). Daily elevations and contents May to June 1964, published in WSP 1840-B.

Gage--Nonrecording gages read once daily except weekends and holidays. Datum of gage is mean sea level (levels by Bureau of Reclamation).

Extremes--Current year: Maximum contents observed, 962,700 acre-ft (1.19 km^3) June 29 (elevation 2,993.94 ft or 912.553 m); minimum observed, 484,700 acre-ft (598 hm^3) Mar. 16, 17 (elevation, 2,960.02 ft or 902.214 m). Period of record: Maximum contents observed, 1,193,000 acre-ft (1.47 km^3) July 12, 13, 1965 (elevation, 3,005.59 ft or 916.104 m); minimum observed since normal operation began, 422,100 acre-ft (520 hm^3) Apr. 1, 1968 (elevation, 2,953.81 ft or 900.321 m).

Remarks--Reservoir is formed by rolled earthfill dam with concrete chute; construction began in September 1952; completed in March 1956. Storage began Oct. 28, 1955. Usable capacity, 1,347,000 acre-ft (1.66 km^3) between elevation 2,870.00 ft (874.776 m), trashrack sill, and 3,012.50 ft (918.210 m), top of flood control. Dead storage, 21,580 acre-ft (26.6 hm^3) below elevation 2,870.00 ft (874.776 m). Prior to Oct. 1, 1963, usable capacity was 1,313,000 acre-ft (1.62 km^3) and dead storage was 24,000 acre-ft (29.6 hm^3) at same elevations. Figures given herein represent usable contents. Water is presently used for recreation and flood control.

Cooperation--Elevations and capacity table furnished by Bureau of Reclamation.

Revisions--WSP 1729: Drainage area.

MONTHEND ELEVATION AND CONTENTS, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30	2,964.29	531,700	
Oct. 31	2,963.63	524,300	-7,400
Nov. 30	2,962.94	516,500	-7,800
Dec. 31	2,962.14	507,700	-8,800
Cal Yr 1974	(0431)		-2,000
Jan. 31	2,961.18	497,200	-10,500
Feb. 28	2,960.26	487,300	-9,900
Mar. 31	2,960.15	486,100	-1,200
Apr. 30	2,966.15	553,100	+67,000
May 31	2,972.28	628,100	+75,000
June 30	2,993.83	960,700	+332,600
July 31	2,984.15	797,700	-163,000
Aug. 31	2,977.67	701,100	-96,600
Sept. 30	2,971.47	617,800	-83,300
Wtr Yr 1975			+86,100

WS-296

Prog. Area: Watershed-Water
Prep. By: G. Lipscomb
Date: 28 July 77

WO-12

OUTPUT DESCRIPTION
Page 1 of 2

OUTPUT TITLE: Table of Sediment Deposition

OUTPUT FORM: Printout/Data Display

OUTPUT DESCRIPTION: A table summarizing annual sediment deposition in lakes and reservoirs by year.

USER(s): Hydrologist; Geomorphologist; Watershed Specialist; Engineers; etc.

LOCATION(s): SC; SO's; DO's; RAH's; etc.

USAGE: As input to URA, EAR's, ES's, Activity plans, and project design

ACCESS LIMITATIONS: None

RESPONSE TIMES: DESIRED: 1 to 3 hours REQUIRED: 1 day

FREQUENCY OF PRODUCTION: Weekly for RAH/DO specialists to quarterly for others

DEPENDENCIES: None

REQUEST PARAMETERS: State, Administrative (100-0004) or State, Geographic (100-0690); District, Administrative (100-0543); Planning Unit (100-1075); Name of Water (100-4061).

WS-297

WO-12

OUTPUT DESCRIPTION
Page 2 of 2

OUTPUT TITLE: Table of Sediment Deposition

SORT ORDER: Identical to sequence of request parameter

ESTIMATED VOLUME: 1 to 3 copies per request with 1 page/copy

COMPUTATIONS/PROCESSES: Computation of accumulated sediment and annual sediment deposition from values of annual capacity of lake or reservoir.

ACCURACY: N/A

SCALE: N/A

ANNOTATIONS: N/A

LEGEND: N/A

REMARKS: None

WS-298

TABLE OF SEDIMENT DEPOSITION

State (0004) (0690)
District (0543)
P.U. (1075)

(DRY RESERVOIR)
(4061)

Year	Capacity (1/10 AC.FT.)	Deposition (1/10 AC.FT.)	Accumulated Sediment (1/10 ACCFT.)	Remarks
	(5425)	(5408)		Construction (6954)

1115-3299

WD-12

Prog. Area: Watershed-Water
Prep. By: G. Lipscomb
Date: 28 July 77

WO-13

OUTPUT DESCRIPTION
Page 1 of 2

OUTPUT TITLE: Table of Surface-Water Quality Analyses

OUTPUT FORM: Printout/Data Display

OUTPUT DESCRIPTION: A table summarizing water quality parameter values for a water quality station (see attached)

USER(s): Hydrologist; Water Quality Specialist; Watershed Specialist; Engineer; etc.

LOCATION(s): SC; SO's; DO's; RAH's; etc.

USAGE: As input to URA, EAR's, ES's, activity plans and project design

ACCESS LIMITATIONS: None

RESPONSE TIMES: DESIRED: 1 to 3 hours REQUIRED: 1 day

FREQUENCY OF PRODUCTION: Weekly for RAH/DO specialists to quarterly for others

DEPENDENCIES: None

REQUEST PARAMETERS: State, Administrative (100-0004) or State, Geographic (100-0690); District, Administrative (100-0543); Code, Watershed (145-5304) Number, Station type (145-5303)

WS-300

WO-13

OUTPUT DESCRIPTION
Page 2 of 2

OUTPUT TITLE: Table of Surface-Water Quality Analyses

SORT ORDER: Identical to sequence of request parameters

ESTIMATED VOLUME: 1 to 3 copies per request with 1 page/copy

COMPUTATIONS/PROCESSES: Selection and display of extremes for various water quality parameters together with other gauging station site information (see attached sample output)

ACCURACY: N/A

SCALE: N/A

ANNOTATIONS: N/A

LEGEND: N/A

REMARKS: None

WS-301

TABLE OF SURFACE-WATER QUALITY ANALYSES

State.--(0004)(0690) Sun River Basin (5304) *(54/6)*
District.--(0543) (5303) 06088300 Muddy Creek near Vaughn, MT (Name for 5303)
Location.--Lat 47°37'30", long 111°38'05", in NW-1/4 NE-1/4 sec. 32, T. 22 N., R. 1 E., Cascade County, at gaging station at bridge on county road and 6.2 mi (10.0 km) northwest of Vaughn.
Drainage Area.--282 mi^2 (730 km^2).
Period of Record.--Chemical Analyses: July 1968 to September 1975.
Water Temperatures: July 1968 to September 1975.
Sediment Records: July 1968 to September 1975.
Extremes.--1974-75:
Specific Conductance: Maximum daily, 1,890 micromhos Apr. 18; minimum daily, 557 micromhos Aug. 10.
Water Temperatures: Maximum 27.5°C July 6; minimum, freezing point on many days during November to March.
Sediment Concentrations: Maximum daily, 9,870 mg/l Apr. 27; minimum daily, 21 mg/l Oct. 26, 27.
Sediment Discharge: Maximum daily, 48,000 tons (43,500 tonnes) May 7; minimum daily, 2.4 tons (2.2 tonnes) Feb. 6.
Period of Record:
Specific Conductance: Maximum daily, 4,130 micromhos May 11, 1970; minimum daily, 365 micromhos Feb. 20, 1969.
Water Temperatures: Maximum, 27.5°C July 6, 1975; minimum, freezing point on many days during winter periods.
Sediment Concentrations: Maximum daily, 9,870 mg/l Apr. 27, 1975; minimum daily observed, 11 mg/l Oct. 19, 1968, Oct. 19, 1972, Oct. 30, 1973.
Sediment Discharge: Maximum daily, 48,000 tons (43,500 tonnes) May 7, 1975; minimum daily, 0.84 ton (0.76 tonne) Jan. 8, 1973.
Remarks.--Flow affected by ice during most of winter months. Natural flow increased by wastage from Greenfields Irrigation Project.

Date	Time	Instantaneous Discharge (CFS)	Temperature (Deg C)	Dissolved Silica (SIO2) (MG/L)	Dissolved Iron (FE) (UG/L)	Dissolved Manganese (MN) (UG/L)	Dissolved Calcium (CA) (MG/L)	Dissolved Magnesium (MG) (MG/L)	Dissolved Sodium (NA) (MG/L)	Dissolved Potassium (K) (MG/L)	Bicarbonate (HCO3) (MG/L)	Dissolved Sulfate (SO4) (MG/L)
Oct. 03...	1230	99	9.0	5.7	40	10	53	58	49	2.3	351	160
Nov. 07...	0930	56	3.5	5.4	10	0	59	58	60	2.5	372	200
Dec. 05...	1015	45	1.0	7.3	10	10	52	66	64	1.8	376	200
Jan. 08...	0900	31	.5	9.7	10	20	64	71	65	2.2	404	240
Feb. 20...	1000	27	.0	8.8	10	0	61	63	68	2.1	387	230
Mar. 18...	0930	34	.0	7.6	20	20	69	83	83	3.3	349	340
Apr. 24...	1000	123	3.0	6.3	10	50	64	74	120	4.7	241	480
May 14...	1130	165	10.5	7.4	20	30	73	71	100	3.5	365	350
June 12...	1030	206	12.5	4.2	30	0	47	36	34	1.7	244	130
July 16...	2030	267	21.0	7.3	0	0	49	37	35	2.3	247	120
Aug. 13...	1400	400	18.5	6.3	0	10	49	38	30	1.6	279	88
Sep. 17...	1325	155	11.0	5.1	20	0	52	53	49	1.8	324	180

WS-302

Date	Dis-solved Chlo-ride (CL) (MG/L)	Dis-solved Fluo-ride (F) (MG/L)	Dis-solved Nitrite Plus Nitrate (N) (MG/L)	Dis-solved Ortho. Phos-Phorus (P) (MG/L)	Dis-solved Phos-Phorus (P) (MG/L)	Dis-solved Solids (Sum of Consti-tuents) (MG/L)	Dis-solved Solids (Tons Per Ac-Ft)	Dis-solved Solids (Tons Per Day)	Hard-ness (CA,MG) (MG/L)	Non-Car-bonate Hard-ness (MG/L)	Sodium Ad-sorp-tion Ratio	Spe-cific Con-duct-ance (Micro-mhos)
Oct. 03...	4.0	.9	1.3	.01	.02	512	.70	137	370	83	1.1	835
Nov. 07...	5.5	1.0	1.7	.01	.00	591	.80	89.4	390	66	1.3	956
Dec. 05...	5.1	1.0	1.9	.00	.00	591	.80	71.8	400	93	1.4	954
Jan. 08...	5.9	1.1	2.1	.01	.00	667	.91	55.8	450	120	1.3	1020
Feb. 20...	6.1	1.1	2.2	.01	.00	641	.87	46.7	410	94	1.5	999
Mar. 18...	10	1.0	2.3	.03	.02	779	1.06	71.5	510	230	1.6	1140
Apr. 24...	13	.7	3.5	.04	.05	897	1.22	298	460	270	2.4	1240
May 14...	13	.9	4.2	.03	.02	817	1.11	364	470	180	2.0	1290
June 12...	3.8	.4	.94	.02	.01	382	.52	212	270	65	.9	619
July 16...	4.7	.5	1.5	.03	.04	384	.52	277	270	72	.9	638
Aug. 13...	3.3	.6	1.2	.01	.02	360	.49	389	280	50	.8	605
Sep. 17...	6.0	.7	2.1	.00	.02	517	.70	216	350	82	1.1	811

WS-303

WD-13 (cont.)

Prog. Area: Watershed-Water
Prep. By: G. Lipscomb
Date: 28 July 77

WO-14

OUTPUT DESCRIPTION
Page 1 of 2

OUTPUT TITLE: Table of Established Water Quality Standards

OUTPUT FORM: Printout/Data Display

OUTPUT DESCRIPTION: A table summarizing values for water quality standards established by some entity. (see attached)

USER(s): Hydrologist; Water Quality Specialist; Watershed Specialist, etc. LOCATION(s): SC; SO's; DO's; RAH's; etc.

USAGE: As input to URA, EAR's, ES's, activity plans and project design

ACCESS LIMITATIONS: None

RESPONSE TIMES: DESIRED: 1 to 3 hours REQUIRED: 1 day

FREQUENCY OF PRODUCTION: Weekly for RAH/DO specialists to quarterly for others

DEPENDENCIES: None

REQUEST PARAMETERS: State, Administrative (100-0004) or State, Geographic (100-0690); District, Administrative (100-0543); Planning Unit(100-1075) Code, Watershed (145-5304)

WS-304

WQ-14

OUTPUT DESCRIPTION
Page 2 of 2

OUTPUT TITLE: Table of Established Water Quality Standards

SORT ORDER: Identical to sequence of request parameters plus Standards Agency, Quality (145-5312); Standard, Type of Water (145-5313); Parameter, Water Resource (145-5316)

ESTIMATED VOLUME: 1 to 3 copies per request with 1 page/copy

COMPUTATIONS/PROCESSES: None

ACCURACY: N/A

SCALE: N/A

ANNOTATIONS: N/A

LEGEND: N/A

REMARKS: None

WS-305

WS-306

TABLE OF ESABLISHED WATER QUALITY STANDARDS

State (0690) (0004)
District (0543)
P.U. (1075)

Date (7308)

WATERSHED	AGENCY ESTABLISHING STANDARDS	TYPE OF STAN..	-PARAMETER STANDARDS-				
			PH	Temperature	Coliform	Turbidity	ETC.
(1)z	(2)	(3)	(4)	(5)	(6)	(7)	
(5304) (5416)	(5312)	(5313)	(5315 + (3658	(5315) + (3658)	(5315) + (3658)	(5315) + (3658)	Other PARAMETERS

EO-14

Prog. Area: Watershed-Water
Prep. By: G. Lipscomb
Date: 27 July 77

WO-15

OUTPUT DESCRIPTION
Page 1 of 2

OUTPUT TITLE: Table of Water Quality Analyses for Ground Water

OUTPUT FORM: Printout/Data Display

OUTPUT DESCRIPTION: A table summarizing water quality data for a ground-water site (see attached)

USER(s): Hydrologist; Geologist; Watershed Specialist; Water Quality Specialist; etc.

LOCATION(s): SO's; DO's; RAH's; etc.

USAGE: As input to URA, EAR's, ES's, activity plans, and project designs

ACCESS LIMITATIONS: None

RESPONSE TIMES: DESIRED: 1 to 3 hours REQUIRED: 1 day

FREQUENCY OF PRODUCTION: Weekly for RAH/DO specialists to quarterly for others

DEPENDENCIES: None

REQUEST PARAMETERS: State, Administrative (100-0004) or State, Geographic (100-0690); District, Administrative (100-0543); Number, Ground-water Site (145-5149)

WS-307

WB-15

OUTPUT DESCRIPTION
Page 2 of 2

OUTPUT TITLE: Table of Water Quality Analyses for Ground Water

SORT ORDER: Identical to sequence of request parameter plus Parameter, Water Resource (145-5316)

ESTIMATED VOLUME: 1 to 3 copies per request with 1 to 10 pages/copy

COMPUTATIONS/PROCESSES: None

ACCURACY: N/A

SCALE: N/A

ANNOTATIONS: N/A

LEGEND: N/A

REMARKS: None

WS-308

(0004)(0690) STATE
(0543) DISTRICT
(5149) SITE NUMBER

115-309

TABLE OF WATER QUALITY ANALYSES FOR GROUND WATER

DATE of SAMPLE (5150)	DIS SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLORIDE (CL) (MG/L)	DIS-SOLVED FLUORIDE (F) (MG/L)	TOTAL NITRATE (NO3) (MG/L)	DIS SOLVED SOLIDS (RESIDUE AT 180 C) (MG/L) (5315)	DIS SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L) (5316)	HARDNESS (CA,MG) (MG/L)	NON-CARBONATE HARDNESS (MG/L)	PERCENT SODIUM	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG. C)
64-07-00	210	65	.1	M.00	--	716	310	110	--	1000	8.2	--
64-07-00	--	9.0	.1	M.00	--	--	56	0	--	286	8.2	--
72-09-22	46	19	.4	1.4	280	--	100	10	49	---	8.0	--
64-03-31	20	23	.4	10	262	235	130	0	40	416	7.8	--
60-10-14	8.0	4.0	.8	3.0	--	145	68	0	41	272	7.9	--
60-10-30	11	2.0	.7	.00	--	166	74	0	--	252	8.3	--
.	17	5.0	.5	.00	--	167	80	0	45	269	8.3	--
.	22	5.0	.7	.00	--	182	64	0	55	266	8.4	--
.	20	11	1.0	2.0	--	196	32	0	80	300	8.6	--
.	27	4.0	.6	.00	--	186	58	0	61	284	8.2	--
.	23	7.0	.5	4.0	--	181	10	0	58	244	8.2	--
.	25	4.0	.5	3.0	--	195	60	0	60	284	8.0	--
.	26	4.0	.8	4.0	--	198	56	0	69	309	8.2	--
.	22	6.0	.8	3.0	--	203	60	0	60	284	8.3	--
.	18	4.0	.7	6.0	--	190	58	0	61	256	7.8	--
.	20	7.0	.6	5.0	--	186	58	0	61	295	7.5	--
.	16	4.0	.8	4.0	--	176	56	0	60	292	8.1	--
.	11	8.0	.3	.00	--	148	80	0	--	269	8.2	--
.	16	5.0	.5	.00	--	175	66	0	--	269	8.3	--
.	23	4.0	.6	2.0	--	189	74	0	--	277	8.3	--
.	27	6.0	.5	.00	--	189	56	0	--	277	8.1	--
.	27	7.0	.5	3.0	--	186	78	0	--	292	8.2	--
.	21	5.0	.7	4.0	--	201	58	0	--	284	8.5	--
.	20	4.0	.6	5.0	--	174	60	0	--	262	8.3	--
.	18	8.0	.8	5.0	--	189	64	0	--	262	8.1	--
53-11-25	9.0	4.0	.1	.00	--	157	76	0	44	259	8.2	--
.	7.0	4.0	1.6	4.0	--	151	18	0	--	287	8.0	--
.	8.0	2.0	1.6	3.0	--	149	14	0	--	282	8.0	--
.	10	4.0	1.2	2.0	--	173	16	0	--	284	8.1	--
64-06-10	19	5.0	1.0	.00	--	181	4	0	--	265	6.2	--

Prog. Area: Watershed-Water
Prep. By: G. Lipscomb
Date: 28 July 77

WO-16

OUTPUT DESCRIPTION
Page 1 of 2

OUTPUT TITLE: Table of Daily Soil Temperature and Soil Moisture

OUTPUT FORM: Printout/Data Display

OUTPUT DESCRIPTION: A table summarizing daily soil temperature and soil moisture data from a data station (see attached)

USER(s): Hydrologist; Soil Scientist; Watershed Specialist; etc.

LOCATION(s): SC; SO's; DO's; RAH's; etc

USAGE: As input to URA, EAR's, ES's, activity plans and project design

ACCESS LIMITATIONS: None

RESPONSE TIMES: DESIRED: 1 to 3 hours REQUIRED: 1 day

FREQUENCY OF PRODUCTION: Weekly for RAH/DO specialists to quarterly for others

DEPENDENCIES: None

REQUEST PARAMETERS: State, Administrative (100-0004) or State Geographic (100-0690); District, Administrative (100-0543); Code, Watershed (145-5304); Number, Station type (145-5303)

WS-310

WO-16

OUTPUT DESCRIPTION
Page 2 of 2

OUTPUT TITLE: Table of Daily Soil Temperature and Soil Moisture

SORT ORDER: Identical to sequence of request parameter

ESTIMATED VOLUME: 1 to 3 copies per request with 1 page/copy

COMPUTATIONS/PROCESSES: Computation of mean daily soil temperature by averaging maximum and minimum values

ACCURACY: N/A

SCALE: N/A

ANNOTATIONS: N/A

LEGEND: N/A

REMARKS: None

WS-311

TYPE OF DAILY SOIL TEMPERATURE AND SOIL MOISTURE

State (0004) (0690)
District (0543)
Watershed (5304)
Station (5303)
Year (8518)
Month (8518)

WS-312

DAY OF MONTH	Soil Temperature (0.1°F) S				Soil Moisture
	Depth	Minimum	Maximum	Mean	
1	(4684)	(5383)	(5382)	(5384)	(5394)
2					
3					
...					
31					
monthly means	XXX				

WD-16

Prog. Area: Watershed-Water
Prep. By: G. Lipscomb
Date: 28 July 77

WO-17

OUTPUT DESCRIPTION
Page 1 of 2

OUTPUT TITLE: Table of Daily Solar Radiation by Station

OUTPUT FORM: Printout/Data Display

OUTPUT DESCRIPTION: A table summarizing solar radiation data for a recording station (see attached)

USER(s): Hydrologist; Watershed Specialist; etc.

LOCATION(s): SC; SO's; DO's, RAH's, etc.

USAGE: As input to watershed activity planning

ACCESS LIMITATIONS: None

RESPONSE TIMES: DESIRED: 1 to 3 days REQUIRED: 1 week

FREQUENCY OF PRODUCTION: Monthly for RAH/DO specialists to annually for others.

DEPENDENCIES: None

REQUEST PARAMETERS: State, Administrative (100-0004) or State Geographic (100-0690); District, Administrative (100-0543); Code, Watershed (145-5304) Number, Station Type (145-5303)

WS-313

WO-17

OUTPUT DESCRIPTION
Page 2 of 2

OUTPUT TITLE: Table of Daily Solar Radiation by Station

SORT ORDER: Identical to sequence of request parameter

ESTIMATED VOLUME: 1 to 3 copies per request

COMPUTATIONS/PROCESSES: None

ACCURACY: N/A

SCALE: N/A

ANNOTATIONS: N/A

LEGEND: N/A

REMARKS: None

WS-314

State (0004) (0690)
District (0543)
Watershed (5304)
Station (5303)
Year (8518)
Month (8518)

TABLE OF DAILY SOLAR RADIATION BY STATION

Day of Month	Total Shortwave Radiation	Day of Month	Total Shortwave Radiation
1	(5387)	17	
2		18	
3		etc.	
etc.		...	
16		31	
		Total	(5388)

WS-315

WO-17

Prog. Area: Watershed-Water
Prep. By: G. Lipscomb
Date: 28 July 77

WO-18

OUTPUT DESCRIPTION
Page 1 of 2

OUTPUT TITLE: Table of Monthly Snow Depth and Snow Water Equivalent

OUTPUT FORM: Printout/Data Display

OUTPUT DESCRIPTION: A table summarizing monthly snow depth and snow water equivalent data by individual station (see attached)

USER(s): Hydrologist; Meteorologist; Watershed Specialist, etc LOCATION(s): SC; SO's, DO's, RAH's; etc.

USAGE: As input to URA, EAR's, ES's, Activity plans, and project designs

ACCESS LIMITATIONS: None

RESPONSE TIMES: DESIRED: 1 to 3 hours REQUIRED: 1 day

FREQUENCY OF PRODUCTION: Weekly for RAH/DO specialists to quarterly for others

DEPENDENCIES: None

REQUEST PARAMETERS: State, Administrative (100-0004), or State, Geographic (100-0690); District, Administrative (100-0543); Code, Watershed (145-5304) Number, Station type (145-5303); Date Recorded (100-8518)

WS-316

WG-18

OUTPUT DESCRIPTION
Page 2 of 2

OUTPUT TITLE: Table of Monthly Snow Depth and Snow Water Equivalent

SORT ORDER: Identical to sequence of request parameter

ESTIMATED VOLUME: 1 to 3 copies per request with 1 to 3 pages/copy

COMPUTATIONS/PROCESSES: Computation of monthly snow depth and snow water equivalent from recorded values (hourly, daily, etc.) for stations

ACCURACY: N/A

SCALE: N/A

ANNOTATIONS: N/A

LEGEND: N/A

REMARKS: None

WS-317

TABLE OF MONTHLY SNOW DEPTH AND SNOW WATER EQUIVALENT

State: (0004) (0690)

District: (0543)

Year: (8515)

8/3-5/17

Station Name/No.		Month of Year (8515)				
		Jan.	Feb.	Mar	(etc.)	Dec.
Alpine 0001	Depth Water	41.1 10.95	48.3 12.01	39.8 10.22		31.7 7.95
Bigfoot 0002	Depth Water		P From (5395) (5396)		→	
(5303)						

1/ Depth=depth of snow on ground, 1/10 inches
Water=snow water equivalent, 1/100 inches

WO-18

Prog. Area: Watershed-Water
Prep. By: G. Lipscomb
Date: 28 July 77

WO-19

OUTPUT DESCRIPTION
Page 1 of 2

OUTPUT TITLE: Table of Monthly Soil Temperature and Soil Moisture

OUTPUT FORM: Printout/Data Display

OUTPUT DESCRIPTION: A table summarizing monthly soil temperature and soil moisture data from a data station (see attached).

USER(s): Hydrologist; Soil Scientist; Watershed Specialist, etc. LOCATION(s): SC; SO's; DO's; RAH's, etc.

USAGE: As input to URA, EAR's, ES's, activity plans, and project designs.

ACCESS LIMITATIONS: None

RESPONSE TIMES: DESIRED: 1 to 3 hours REQUIRED: 1 day

FREQUENCY OF PRODUCTION: Weekly for RAH/DO specialists to quarterly for others

DEPENDENCIES: None

REQUEST PARAMETERS: State, Administrative (100-0004) or State, Geographic (100-0690); District, Administrative (100-0543); Code, Watershed (145-5304) Number, Station type (145-5303); Date Recorded (100-8518)

115-319

WD-19

OUTPUT DESCRIPTION
Page 2 of 2

OUTPUT TITLE: Table of Monthly Soil Temperatures and Soil Moisture

SORT ORDER: Identical to sequence of request parameters

ESTIMATED VOLUME: 1 to 3 copies per request with 1 to 3 pages/copy

COMPUTATIONS/PROCESSES: Computation of mean monthly soil temperature and soil moisture from recorded values (hourly, daily, etc.) for a station.

ACCURACY: N/A

SCALE: N/A

ANNOTATIONS: N/A

LEGEND: N/A

REMARKS: None

115-320

TABLE OF MONTHLY SOIL TEMPERATURE AND SOIL MOISTURE

State (0004) (0690)
District (0543)
Watershed (5304)
Year (8515
MOnth (8515)

1/15

Station Name/No.		Month of Year				
		Jan	Feb	Mar	ETC...	
ALPINE	TEMPERATURE					
0001	WATER	----	(5385)----	----		
BIGFOOT	TEMPERATURE	----	(5394)----	----		
	WATER					
0002						
(4914)						
(8515)	1/					

1/temperature= mean menthly,1/10 °F

water= mean depth of soil water, 1/10 inches

Prog. Area: Watershed-Water
Prep. By: G. Lipscomb
Date: 28 July 77

WO-20

OUTPUT DESCRIPTION
Page 1 of 2

OUTPUT TITLE: Table of Monthly Streamflow by Station

OUTPUT FORM: Printout/Data Display

OUTPUT DESCRIPTION: A table summarizing gauging station mean monthly discharge by specified gauging stations (see attached)

USER(s): Hydrologist; Engineer; Watershed Specialsit, etc.

LOCATION(s): SC; SO's, DO's; RAH's; etc.

USAGE: As input to URA, EAR's ES's, activity plans and project design

ACCESS LIMITATIONS: None

RESPONSE TIMES: DESIRED: 1 to 3 hours REQUIRED: 1 day

FREQUENCY OF PRODUCTION: Weekly for RAH/DO specialists to quarterly for others

DEPENDENCIES: None

REQUEST PARAMETERS: State, Administrative (100-0004) or State Geographic (100-0690); District, Administrative (100-0543); Code Watershed (145-5304) Number, Station type (145-5303); Date recorded (100-8518)

WS-321.1

WO-20

OUTPUT DESCRIPTION
Page 2 of 2

OUTPUT TITLE: Table of Monthly Streamflow by Station

SORT ORDER: Identical to sequence of request parameter

ESTIMATED VOLUME: 1 to 3 copies per request with 1 to 3 pages/copy

COMPUTATIONS/PROCESSES: Computation of mean monthly discharge from recorded data (hourly, daily etc.) for a specified station.

ACCURACY: N/A

SCALE: N/A

ANNOTATIONS: N/A

LEGEND: N/a

REMARKS: None

TABLE OF MONTHLYSTREAMFLOW BY STATION
State: (0004) (0690)
District: (0543)
Watershed: (5304)
Water Year: (7308)

225-323

Station Name/No.	Month of Year, 10/76 to 9/77 (7308)				
	Oct.	Nov.	Dec.	(etc.)	Sep.
Raging River 0171 (5303)	122	107 (5316 & (5315)	94		137
	1/	1/	1/	1/	1/

1/ mean monthly streamflow in cubic feet per second

02-03

TABLE OF MONTHLYSTREAMFLOW BY STATION
State: (0004) (0690)
District: (0543)
Watershed: (5304)
Water Year: (7308)

Station Name/No.	Month of Year, 10/76 to 9/77 (7308)				
	Oct.	Nov.	Dec.	(etc.)	Sep.
Raging River 0171 (5303)	122	107	94 (5316 & (5315)		137
	1/	1/	1/	1/	1/

1/ mean monthly streamflow in cubic feet per second

115 - 323

W0-20

Prog. Area: Watershed-Water
Prep. By: G. Lipscomb
Date: 28 July 77

WD-21

OUTPUT DESCRIPTION
Page 1 of 2

OUTPUT TITLE: Flood Frequency Plot for Log-Pearson Type III Method

OUTPUT FORM: Plot/Graphic Display

OUTPUT DESCRIPTION: A graphic display of a plot of expected flood flow in cubic feet per second versus return period(frequency) in years (see attached)

USER(s): Hydrologist; Engineer; Watershed Specialist, etc.

LOCATION(s): SC; SO's; DO's; RAH's, etc.

USAGE: As input to watershed planning and project design

ACCESS LIMITATIONS: None

RESPONSE TIMES: DESIRED: 1 to 3 hours REQUIRED: 1 day

FREQUENCY OF PRODUCTION: Monthly for SO/DO specialists to quarterly for others

DEPENDENCIES: None

REQUEST PARAMETERS: State, Administrative (100-0004) or State, Geographic (100-0690); District, Administrative (100-0543); Code, Watershed (145-5304); Number, Station Type (145-5303)

US-324

WO-21

OUTPUT DESCRIPTION
Page 2 of 2

OUTPUT TITLE: Flood Frequency Plot for Log-Pearson Type III Method

SORT ORDER: Identical to sequence of request parameter

ESTIMATED VOLUME: 1 to 3 copies per request with 1 page/copy

COMPUTATIONS/PROCESSES: Computation of predicted streamflow values by return period from recorded discharge data for a specific gauging station and plotting on an X-Y axis graph (see attached sample output)

ACCURACY: N/A

SCALE: N/A

ANNOTATIONS: N/A

LEGEND: N/A

REMARKS: This graphic plot corresponds to tabular data displayed in WO-22 Flood Flow Frequency Analysis - Log- Pearson Type III Method.

District (0543)
Watershed (5304)

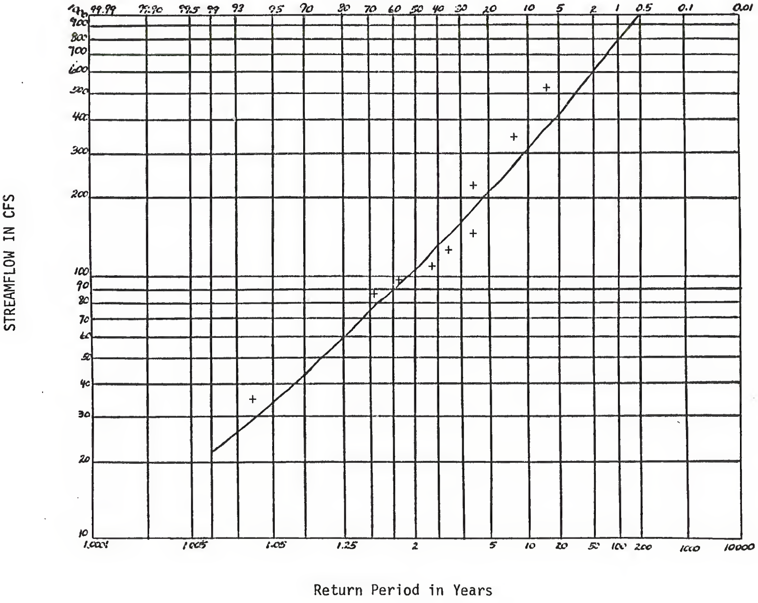
FLOOD FREQUENCY PLOT FOR LOG - PEARSON TYPE III METHOD

(Name For 5303)

WAGON GULCH NEAR DUBOIS, WYOMING (0690)(0004)

STATION NO 062187.00

(3621) PERIOD 1961 - 1974 14 YEARS



Prog. Area: Watershed-Water
Prep. By: G. Lipscomb
Date: 29 July 77

WO-22

OUTPUT DESCRIPTION
Page 1 of 2

OUTPUT TITLE: Flood Flow Frequency Analysis - Log-Pearson Type III Method

OUTPUT FORM: Printout/Data Display

OUTPUT DESCRIPTION: A table summarizing computed stream discharge for various recurrence intervals using Log Pearson Type III flood flow frequency analysis (see attached)

USER(s): Hydrologist; Engineer; Watershed Specialist, etc.

LOCATION(s): SC; SO's; DO's; RAH's etc.

USAGE: As input to watershed planning and project design

ACCESS LIMITATIONS: None

RESPONSE TIMES: DESIRED: 1 to 3 hours REQUIRED: 1 day

FREQUENCY OF PRODUCTION: Monthly for SO/DO hydrologist to quarterly for others

DEPENDENCIES: None

REQUEST PARAMETERS: State, Administrative (100-0004) or State, Geographic (100-0690); District, Administrative (100-0543); Code, Watershed (145-5304) Number, Station Type (145-5303)

105-327

WO-22

OUTPUT DESCRIPTION
Page 2 of 2

OUTPUT TITLE: Flood Flow Frequency Analysis - Log-Pearson Type III Method

SORT ORDER: Identical to sequence of request parameter

ESTIMATED VOLUME: 1 to 3 copies per request with i to 3 pages/copy

COMPUTATIONS/PROCESSES: Computation of predicted streamflow values by percent chance/recurrence interval from recorded discharge data for a gauging station using Log-Perarson Type III Flood Flow Frequency Analysis Method (see attached)

ACCURACY: N/A

SCALE: N/A

ANNOTATIONS: N/A

LEGEND: N/A

REMARKS: This tabular display of data corresponds to graphic plot in WO-21 Flood Frequency Plot for Log-Pearson Type III Method.

FLOOD FLOW FREQUENCY ANALYSIS LOG-PEARSON TYPE III METHOD
ANNUAL INSTANTANEOUS PEAK DISCHARGE IN CFS

Wagon Gulch Near DuBois, Wyoming Station No 062187.00
Latitude 43-34-42 Longitude 109-44-13 Section 30 Township 42 N Range 107 W
Drainage Area 4.89 Square Miles

Period 1961 - 1974 14 Years of Data

Year	Date	Flow Value Y	Log Y X
1961	June 4	360	2.556302
1962		80	1.903090
1963		80	1.903090
1964	July 13	220	2.342422
1965		134	2.127104
1966		80	1.903090
1967	June 14	120	2.079181
1968	June 10	95	1.977723
1969	Sep. 20	47	1.672097
1970	May 23	25	1.397940
1971	May 4	115	2.060698
1972	Apr.	116	2.064457
1973	Aug. 4	82	1.913814
1974	July 19	520	2.716002

Summation X	28.617020
Summation X Squared	59.943802
Summation X Cubed	128.584213
Mean of X	2.044072
Standard Deviation	.333807
Skew Coefficient	.320479

STANDARD DEVIATION AND SKEW COEFFICIENT AS DEFINED FOR LOG PEARSON TYPE III METHOD

FLOOD FLOW FREQUENCY ANALYSIS LOG-PEARSON TYPE III METHOD
ANNUAL INSTANTANEOUS PEAK DISCHARGE IN CFS

District (0543) Wagon Gulch Near Dubois, Wyoming (0690)(0004)
Station No 062187.00 (Name For 5303)
Latitude (1236) 43-34-42 Longitude (1237) 109-44-13 Section 30 (2501)
Township 42 N. (1695) Range (1699) 107 W.
Drainage Area 4.89 Square Miles P (computed from 5321) = $\frac{\text{Acres}}{640}$ = XXXXX.XX

Period (3621) 1961 - 1974 14 Years of Data

K Values - Pearson Type III Coordinates Expressed In Number of Standard Deviations From The Mean For Various Recurrence Intervals Or Percent Change. From Water Resources Council Bulletin No. 15. L Is Column No. J Is Row Ac. In Table.

K	L	J
-2.1040	1	28
-1.5550	2	28
-1.2450	3	28
- .8530	4	28
- .0500	5	28
.8240	6	28
1.3090	7	28
1.8490	8	28
2.2110	9	28
2.5440	10	28
2.8560	11	28

Percent Chance	Recurrence Interval	Computed Flow
99.0	1.0101	21.97
95.0	1.0526	33.50
90.0	1.1111	42.51
80.0	1.2500	57.46
50.0	2.0000	106.51
20.0	5.0000	208.51
10.0	10.0000	302.71
4.0	25.0000	458.44
2.0	50.0000	605.51
1.0	100.0000	782.12
.5	200.0000	694.09

FLOOD FREQUENCY--LOG-PEARSON TYPE III METHOD

Prog. Area: Watershed-Water
Prep. By: G. Lipscomb
Date: 29 July 77

WO-23

OUTPUT DESCRIPTION

Page 1 of 2

OUTPUT TITLE: Graph of Water Quality Parameter Values versus Time

OUTPUT FORM: Plot/Graphic Display

OUTPUT DESCRIPTION: A graphic plot of water quality parameter values versus time(month) for a year or years (see attached)

USER(s): Hydrologist: Water Quality Specialist; Watershed Specialist;etc LOCATION(s): SC; SO's; DO's; RAH's, etc

USAGE: As input to URA, EAR's, ES's, activity plans and project designs

ACCESS LIMITATIONS: None

RESPONSE TIMES: DESIRED: 1 to 3 hours REQUIRED: 1 day

FREQUENCY OF PRODUCTION: Monthly for RAH/DO specialsits to quarterly for others

DEPENDENCIES: None

REQUEST PARAMETERS: State, Administrative (100-0004) or State, Geographic (100-0690); District, Administrative (100-0543); Code, Watershed (145-5304) Number, Station Type (145-5303)

115-331

OUTPUT DESCRIPTION
Page 2 of 2

OUTPUT TITLE: Graph of Water Quality Parameter Values versus Time

SORT ORDER: Identical to sequence of request parameter

ESTIMATED VOLUME: 1 to 3 copies per request with 1 to 5 pages/copy

COMPUTATIONS/PROCESSES: Computation of mean monthly water quality parameter values from recorded station data (hourly, daily, etc. values) and plotting of individual parameter values with line connecting the values (see attached)

ACCURACY: N/A

SCALE: N/A

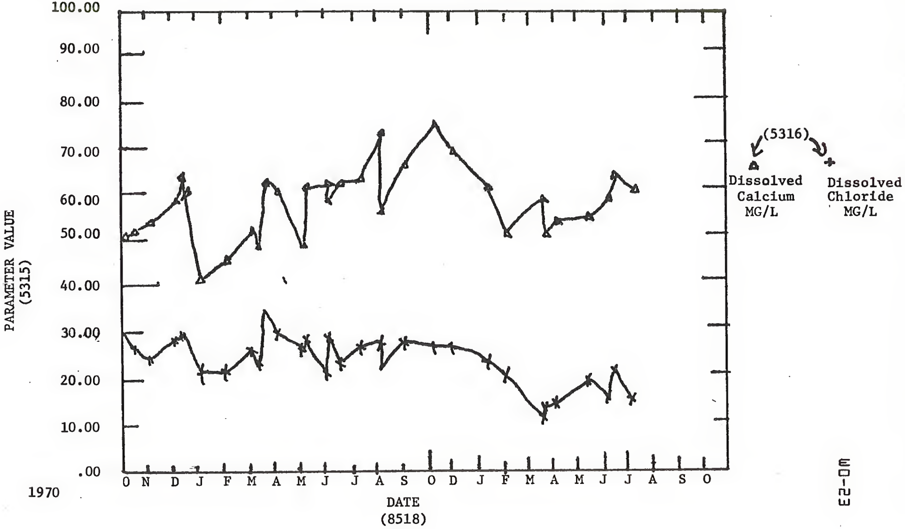
ANNOTATIONS: See attached sample output

LEGEND: N/A

REMARKS: None

GRAPH OF WATER QUALITY PARAMETER VALUES vs. TIME
Bear River At Border, Wyoming (0690) (0004)
Station No. 10038500 (5303)

District: (0543) Watershed: (5304)



1115-533

WQ-23

Prog. Area: Watershed-Water
Prep. By: G. Lipscomb
Date: 29 July 77

WO-24

OUTPUT DESCRIPTION
Page 1 of 2

OUTPUT TITLE: Water Resources Overlay by Planning Unit

OUTPUT FORM: Map/Graphic Display

OUTPUT DESCRIPTION: A graphic display of surface and ground water data for a planning area (see attached)

USER(s): Hydrologist; Watershed Specialists; Planners, etc. LOCATION(s): SO's; DO's; RAH's, etc.

USAGE: As input to Step 2 URA

ACCESS LIMITATIONS: None

RESPONSE TIMES: DESIRED: 1 to 3 days REQUIRED: 1 week

FREQUENCY OF PRODUCTION: Monthly for RAH/DO specialist to annually for others

DEPENDENCIES: None

REQUEST PARAMETERS: State, Administrative (100-0004) or State, Geographic (100-0690); District, Administrative (100-0543); Planning Unit (100-1075)

WS-334

WO-24

OUTPUT DESCRIPTION
Page 2 of 2

OUTPUT TITLE: Water Resources Overlay by Planning Unit

SORT ORDER: Identical to sequence of request parameter

ESTIMATED VOLUME: 1 to 3 copies per request with 1 page/copy

COMPUTATIONS/PROCESSES: (see attached sample)

ACCURACY: Within 5%

SCALE: Variable (filed at 1:24,000, 1:62,500 or 1:125,000)

ANNOTATIONS: See attached sample output

LEGEND: Standard map symbols for depicting such water resources data as reservoirs, dams, springs, stream channels, wells, average annual runoff, ground-water levels, etc. (see attached sample legend)

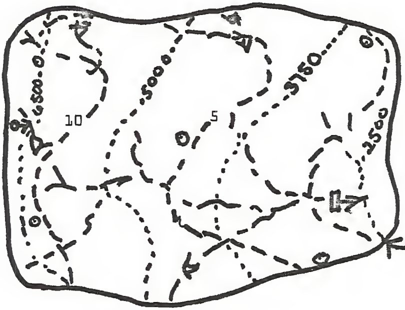
REMARKS: None

WS-335

WO-24
{URA 2}

WATER RESOURCES OVERLAY BY PLANNING UNIT

State: {0004} {0690} Date: {7308}
District: {0543}
P.U.: {1075}



boundary of P.U.
{7501}

Legend

----	Stream
⊙	Well
Ɐ	Reservoir
⏏	Detention Dam
o→▷	Spring
-5-	Average Annual Runoff {inches}
--2500--	Ground-Water Level {feet above MSL}

Prog. Area: Watershed-Water
Prep. By: G. Lipscomb
Date: 29 July 77

WQ-25

OUTPUT DESCRIPTION
Page 1 of 2

OUTPUT TITLE: Surface Water Supply Table

OUTPUT FORM: Printout/Data Display

OUTPUT DESCRIPTION: A table summarizing surface water quality and quantity data for watershed within a planning area (see attached)

USER(s): Hydrologist; Watershed Specialist; Water Quality Specialist; Planners, etc.

LOCATION(s): SO's; DO's; RAH's etc

USAGE: As input to Step 2 URA

ACCESS LIMITATIONS: None

RESPONSE TIMES: DESIRED: 1 to 3 days REQUIRED: 1 week

FREQUENCY OF PRODUCTION: Monthly for RAH/DO specialists to annually for others

DEPENDENCIES: None

REQUEST PARAMETERS: State, Administrative (100-0004) or State, Geographic (100-0690); District, Administrative (100-0543); Planning Unit (100-1075); Code, Watershed (145-5304)

WS 337

WO-25

OUTPUT DESCRIPTION
Page 2 of 2

OUTPUT TITLE: Surface Water Supply Table

SORT ORDER: Identical to sequence of request parameter

ESTIMATED VOLUME: 1 to 3 copies per request with 1 page/copy

COMPUTATIONS/PROCESSES: Computation of data elements from watershed and gauging station recorded values (see attached)

ACCURACY: N/A

SCALE: N/A

ANNOTATIONS: N/A

LEGEND: N/A

REMARKS: None

WO-25

(URA 2)

State (0004/0690)
District (0543)

SURFACE WATER SUPPLY TABLE

Planning Unit Pyramid (1075)

Date 4/4/75 (7308)

Watershed NAME (5304)	Runoff Inches (5417)	Area in P.U. (acres) (6520)	Ann. Yield Ac/Ft (5419)	Sediment p.p.m. (5420)	Sed.Yld. Cu/Yd (5421)	Total Dissolved Solids (P.P.M.) (5422)
Able Cr.	5.0	5,000	2,083	125	307	85
Baxter Cr.	2.5	40,000	8,333	300	2,450	50
Cherry Cr.	0.5	155,000	6,458	1,100	8,382	115
TOTAL P	8.0	200,000	16,874		11,139	

WS-339

Prog. Area: Watershed-Water
Prep. By: G. Lipscomb
Date: 29 July 77

WG-26

OUTPUT DESCRIPTION
Page 1 of 2

OUTPUT TITLE: Lake and Reservoir Water Supply Table

OUTPUT FORM: Printout/Data Display

OUTPUT DESCRIPTION: A table summarizing water data for lakes and reservoirs within a planning area (see attached)

USER(s): Hydrologist; Watershed Specialists; Planners; etc.

LOCATION(s): SO's; DO's; RAH's etc

USAGE: As input to Step 2 URA

ACCESS LIMITATIONS: None

RESPONSE TIMES: DESIRED: 1 to 3 days REQUIRED: 1 week

FREQUENCY OF PRODUCTION: Monthly for RAH/DO specialists to annually for others

DEPENDENCIES: None

REQUEST PARAMETERS: State, Administrative (100-0004) or State, Geographic (100-0690); District, Administrative (100-0543); Planning Unit (100-1075) Code, Watershed (145-5304); Name of Water (100-4061)

lis - 340

WC-26

OUTPUT DESCRIPTION
Page 2 of 2

OUTPUT TITLE: Lake and Reservoir Water Supply Table

SORT ORDER: Identical to sequence of request parameter

ESTIMATED VOLUME: 1 to 3 copies per request with 1 page/copy

COMPUTATIONS/PROCESSES: Computation of data elements from lake/reservoir recorded values (see attached)

ACCURACY: N/A

SCALE: N/A

ANNOTATIONS: N/A

LEGEND: N/A

REMARKS: None

WS-341

P.U. Fort Lexington (1075)

Date 12/3/74 (7308)

Drainage Basin Central (5304)
State (0004/0690)
District (0543)

LAKE AND RESERVOIR WATER SUPPLY TABLE

Lake or Reservoir Name	Size Surface Acres	Total Capacity Ac/Ft	Evaporation Ac/Ft	Minimum Pool Ac/Ft	Usable Storage Ac/Ft	Mean Annual Drawdown Ac/Ft	Mean Annual Carryover Ac/Ft
Green River Sinks (Natural Lake)	25,000	2,800,000	100,000	5,000	N/A	N/A	N/A
St. Helens (Reservoir)	3,250	63,000	12,000	20,000	31,000	31,000	20,000
(4061)	(5424)	(5425)	(5426)	(5427)	(5428)	(5429)	(5430)
Total P	28,250	2,863,000	112,000	25,000	31,000	31,000	20,000

WS-3412

WO-26 (URA 2)

Prog. Area: Watershed-Water
Prep. By: G. Lipscomb
Date: 29 JUly 77

WO-27

OUTPUT DESCRIPTION
Page 1 of 2

OUTPUT TITLE: Ground-Water Supply Table

OUTPUT FORM: Printout/Data Display

OUTPUT DESCRIPTION: A table summarizing ground-water data by ground-water basin for a planning area (see attached)

USER(s): Hydrologist; Geologist; Watershed Specialist; Planners, etc.

LOCATION(s): SO's, DO's, RAH's, Etc

USAGE: As input to Step 2 URA

ACCESS LIMITATIONS: None

RESPONSE TIMES: DESIRED: 1 to 3 days REQUIRED: 1 week

FREQUENCY OF PRODUCTION: Monthly for RAH/DO specialists to annually for others

DEPENDENCIES: None

REQUEST PARAMETERS: State, Administrative (100-0004) or State, Geographic (100-0690); District, Administrative (100-0543); Planning Unit (100-1075) Name, Ground-water Basin (145-5431)

WS-343

WD-27

OUTPUT DESCRIPTION
Page 2 of 2

OUTPUT TITLE: Ground-water Suppy Table

SORT ORDER: Identical to sequence of request parameter

ESTIMATED VOLUME: 1 to 3 copies per request with 1 page/copy

COMPUTATIONS/PROCESSES: Computation of data elements from ground-water station recorded values (see attached sample)

ACCURACY: N/A

SCALE: N/A

ANNOTATIONS: N/A

LEGEND: N/A

REMARKS: None

WS - 344

11/5.343-

State (0004/0690)
District ((0543)

GROUND-WATER SUPPLY TABLE

P.U. Morgen Mountain (1075)

Date 4/15/75 (7308)

(5431) Name of Basin	(5432) Area (Acres)	(5433) Depth (Feet)	(5434) Storage (Ac/Ft)	(5435) Production (Ac/ft)	(5436) Recharge Rate (Ac/Ft)	(5437) Storage Chge. (Ac/Ft)	(5438) Total Dissolved Solids (P.P.M.)	(6954) Other
Pehreh Desert	50,000	225	1,000,000	12,600	13,600	400	500	Salt intrusions, below domestic quality
Hidden Valley	210,000	180	3,800,000	50,000	51,000	1,000	150	
Totals P	260,000		4,800,000	62,000	64,000	1,400		

WO-27
(URA 2)

Prog. Area: Watershed-Water
Prep. By: G. Lipscomb
Date: 29 July 77

WO-28

OUTPUT DESCRIPTION
Page 1 of 2

OUTPUT TITLE: Table of Unused Water Supply

OUTPUT FORM: Printout/Data Display

OUTPUT DESCRIPTION: A table summarizing unused surface and ground water supply within a planning area (see attached)

USER(s): Hydrologist; Watershed Specialist; Planners etc

LOCATION(s): SO's, DO's, RAH's. etc

USAGE: As input to Step 2 URA

ACCESS LIMITATIONS: None

RESPONSE TIMES: DESIRED: 1 to 3 days REQUIRED: 1 week

FREQUENCY OF PRODUCTION: Monthly for RAH/DO specialists to annually for others

DEPENDENCIES: None

REQUEST PARAMETERS: State, Administrative (100-0004) or State, Geographic (100-0690); District, Administrative (100-0543); Planning Unit (100-1075) Code, Watershed (145-5304)

WS-346

WO-28

OUTPUT DESCRIPTION
Page 2 of 2

OUTPUT TITLE: Table of Unused Water Supply

SORT ORDER: Identical to sequence of request parameter

ESTIMATED VOLUME: 1 to 3 copies per request with 1 page/copy

COMPUTATIONS/PROCESSES: (see attached sample)

ACCURACY: N/A

SCALE: N/A

ANNOTATIONS: N/A

LEGEND: N/A

REMARKS: None

WS-347

TABLE OF UNUSED WATER SUPPLY

State (0004)(0690)
District (0543)
P.U. (1075)

Date (7308)

WS-348

Name of Basin	Mean Annual Unused Supply of Surface Water (acre feet	Mean Annual Unused Supply of Ground Water (acre feet)	Mean Annual Unused Supply (acre feet)
(1)	(2)	(3)	(4)
(5304)	(5443)	(5444)	(5445)

(2) Unused surface supply=(basin yield)-(stream diversions)-(mean annual drawdown and evaporation in lakes and reservoirs)-(on site use by activities)-minimum flow requirements)
(3) Unused ground supply=(mean annual recharge)-(mean annual production)
(4) Column (2) and column (3)

WD-28
{URA 2}

Prog. Area: Watershed-Water
Prep. By: G. Lipscomb
Date: 29 July 77

WO-29

OUTPUT DESCRIPTION
Page 1 of 2

OUTPUT TITLE: Total Storage Capacity Table

OUTPUT FORM: Printout/Data Display

OUTPUT DESCRIPTION: A table summarizing usable storage of lakes and reservoirs and ground-water storage in aquifers for a planning area (see attached)

USER(s): Hydrologist; Geologist; Watershed Specialist; Planners, etc. LOCATION(s): SO's, DO's, RAH's, etc.

USAGE: As input to Step 2 URA

ACCESS LIMITATIONS: None

RESPONSE TIMES: DESIRED: 1 to 3 days REQUIRED: 1 week

FREQUENCY OF PRODUCTION: Monthly for RAH/DO specialists to annually for others

DEPENDENCIES: none

REQUEST PARAMETERS: State, Administrative (100-0004) or State Geographic (100-0690); District, Administrative (100-0543); Planning Unit (100-1075) Code, Watershed (145-5304)

WS-349

WO-29

OUTPUT DESCRIPTION
Page 2 of 2

OUTPUT TITLE: Total Storage Capacity Table

SORT ORDER: Identical to sequence of request parameters

ESTIMATED VOLUME: 1 to 3 copies per request with 1 page/copy

COMPUTATIONS/PROCESSES: (see attached sample)

ACCURACY: N/A

SCALE: N/A

ANNOTATIONS: N/A

LEGEND: N/A

REMARKS: None

TOTAL STORAGE CAPACITY TABLE

State: (0004) (0690)

Date: (7308)

District: (0543)

Planning Unit: (1075)

Name of Basin	Usable Storage Capacity of Lakes and Reservoirs (acre feet)	Ground-Water Storage (acre feet)	Total Storage Capacity (acre feet)
(1)	(2)	(3)	(4)
(5304)	(5428)	(5434)	(5446)

115-357

(2) Usable storage=(Total capacity of lakes and reservoirs)-(annual evaporation)-(minimum pool)
(3) Ground-water storage=Estimated total storage in aquifers
(4) Total storage capacity=Column (2) and column (3)

WD-29
{URA 2}

Prog. Area: Watershed-Water
Prep. By: G. Lipscomb
Date: 29 July 77

WO-30

OUTPUT DESCRIPTION
Page 1 of 2

OUTPUT TITLE: Annual Nonconsumptive Water Requirements - Rivers and Streams

OUTPUT FORM: Printout/Data Display

OUTPUT DESCRIPTION: A table summarizing water requirements from rivers and streams within a planning area (see attached)

USER(s): Hydrologist; Watershed Specialists; Planners, etc.

LOCATION(s): SO's; DO's; RAH's, etc.

USAGE: As input to Steps 2, 3 and 4 of URA

ACCESS LIMITATIONS: None

RESPONSE TIMES: DESIRED: 1 to 3 days REQUIRED: 1 week

FREQUENCY OF PRODUCTION: Monthly for RAH/DO specialists to annually for others

DEPENDENCIES: None

REQUEST PARAMETERS: State, Administrative (100-0004) or State, Geographic (100-0690); District, Administrative (100-0543); Planning Unit (100-1075); County, Etc.(100-0546); Code, Watershed (145-5304); Name of Water (100-4061)

115-3512

OUTPUT DESCRIPTION
Page 2 of 2

OUTPUT TITLE: Annual Nonconsumptive Water Requirements - Rivers and Streams

SORT ORDER: Identical to sequence of request parameters

ESTIMATED VOLUME: 1 to 3 copies per request with 1 to 5 pages/copy

COMPUTATIONS/PROCESSES: None

ACCURACY: N/A

SCALE: N/A

ANNOTATIONS: N/A

LEGEND: N/A

REMARKS: None

WO-30
(URA 2, 3 & 4)

ANNUAL NONCONSUMPTIVE WATER REQUIREMENTS, RIVERS AND STREAMS

Planning Unit (1075)
Morgan Mountain

State 0 6 (0690/0004) | District 0 1 (0543) | Planning Unit 2 1 (1075) | County 0 5 1 (0546) | (WRC) Hydrologic Subregion 1 7 7 6 (5304) | Date 1 2 mo 7 5 yr (7308)

NAME	CRITICAL POINT OR REACH	WILD AND SCENIC		USE		MEAN MINIMUM FLOW C.F.S.	MINIMUM FLOW REQUIREMENTS – C.F.S.			
		ACTUAL	PROPOSED	TYPE	SEASON		PRESENT	1985	2000	2020
(4061)	(5447)	(5448)		(5449)	(5450)	(5451)	(5477)	(5478)	(5479)	(5480)
Lost Cannon Cr.	1 mi. - above S. Fork - BLM	-	-	Fish Trout	Spring Summer	4	1.5	1.5	1.5	1.5
Mill Cr.	1.5 mi. below Bridge - BLM	-	-	Fish Trout	Spring Summer	15	5	5	5	5
Slinkard Cr.	11 mi. - above Johnson Rapids 4 mi. - pvt. 7 mi. - BLM	-	-	Fish Salmon	Fall and Winter	6 2	2 1.0	2 1.0	2 1.0	2 1.0
				Boat	Spring		5	5	5	5
Mag River	25 mi. - below Rock Cr. Dam 8 mi. - pvt. 17 mi. - BLM			Boat	Year long	30	30	30	30	30

4'5-354

Prog. Area: Watershed-Water
Prep. By: G. Lipscomb
Date: 29 July 77

WG-31

OUTPUT DESCRIPTION
Page 1 of 2

OUTPUT TITLE: Annual Nonconsumptive Water Requirements - Lakes and Reservoirs

OUTPUT FORM: Printout/Data Display

OUTPUT DESCRIPTION: A table summarizing water requirements from lakes and reservoirs within a planning area (see attached)

USER(s): Hydrologist: Watershed Specialsits; Planners, etc.

LOCATION(s): SO's; DO's; RAH's, etc

USAGE: As input to Steps 2, 3, and 4 of URA

ACCESS LIMITATIONS: None

RESPONSE TIMES: DESIRED: 1 to 3 days REQUIRED: 1 week

FREQUENCY OF PRODUCTION: Monthly for RAH/DO specialsits to annually for others

DEPENDENCIES: None

REQUEST PARAMETERS: State, Administrative (100-0004) or State, Geographic (100-0690); District, Administrative (100-0543); Planning Unit (100-1075); County, Etc. (100-0546); Code, Watershed (145-5304); Name of Water (100-4061)

WS-355

WO-31

OUTPUT DESCRIPTION
Page 2 of 2

OUTPUT TITLE: Annual Nonconsumptive Water Requirements - Lakes and Reservoirs

SORT ORDER: Identical to sequence of request parameter

ESTIMATED VOLUME: 1 to 3 copies per request with 1 to 5 pages/copy

COMPUTATIONS/PROCESSES: None

ACCURACY: N/A

SCALE: N/A

ANNOTATIONS: N/A

LEGEND: N/A

REMARKS: None

(115-357)

ANNUAL NONCONSUMPTIVE WATER REQUIREMENTS, LAKES AND RESERVOIRS

Planning Unit Morgan Mountain (1075)

(0004) State 0 6	(0543) District 0 1	(1075) Planning Unit 2 3	(0546) County 0 5 1	(5304) (Hydrologic) Subregion 1 7 7 6	(7308) Date 1 2 mo 7 5 yr

NAME	TYPE	USE		UNITS		MEAN MINIMUM STORAGE	MINIMUM REQUIREMENTS			
		TYPE	SEASON	ACRES	ACRE-FEET		PRESENT	1980	2000	2020
(4061)	(6935)	(5449)	(5450)	(5424)	(5425)	(5453)	(5481)	(5482)	(5483)	(5484)
Topaz Lake	Artificial			1600	59,440	19,000				
		Fish Cold Water	Year Long	-	-	-	25,000	25,000	30,000	30,000
		Rec. Boat Swim. Ski	Spring and Summer	-	-	-	30,000	30,000	30,000	30,000
Johnson Reservoir	Artificial			45	900	40				
		Fish Warm Water	Year Long				40	100	100	100

WO-31
(URA 2, 3 & 4)

Prog. Area: Watershed-Water
Prep. By: G. Lipscomb
Date: 29 July 77

WO232

OUTPUT DESCRIPTION
Page 1 of 2

OUTPUT TITLE: Annual Consumptive Water Requirements

OUTPUT FORM: Printout/Data Display

OUTPUT DESCRIPTION: A table summarizing the total annual consumptive water requirements for a planning area (see attached)

USER(s): Hydrologist; Watershed Specialist; Planners, etc.

LOCATION(s): SO's; DO's; RAH's, etc.

USAGE: As input to Steps 2, 3, and 4 of URA

ACCESS LIMITATIONS: None

RESPONSE TIMES: DESIRED: 1 to 3 days REQUIRED: 1 week

FREQUENCY OF PRODUCTION: Monthly for RAH/DO specialists to annually for others

DEPENDENCIES: None

REQUEST PARAMETERS: State, Administrative (100-0004) or State, Geographic (100-0690); District, Administrative (100-0543); Planning Unit (100-1075); Code, Watershed (145-5304)

WS-358

WO-32

OUTPUT DESCRIPTION

Page 2 of 2

OUTPUT TITLE: Annual Consumptive Water Requirements

SORT ORDER: Identical to sequence of request parameter

ESTIMATED VOLUME: 1 to 3 copies per request with 1 page/copy

COMPUTATIONS/PROCESSES: (see attached sample)

ACCURACY: N/A

SCALE: N/A

ANNOTATIONS: N/A

LEGEND: N/a

REMARKS: None

ANNUAL CONSUMPTIVE WATER REQUIREMENTS

State: (0004) (0690)

Date: (7308)

District: (0543)

Planning Unit: (1075)

115-3662

Name of Basin	Mean Annual Reservoir Drawdown (acre feet)	Stream Diversions (acre feet)	Consumptive Use (acre feet)
(1)	(2)	(3)	(4)
(5304)	(5429)	(5458)	(5459)

(2) Reservoir drawdown=mena annual drawdown of lakes and reservoirs (does not include evaporation)
(3) Stream diversions=Annual water diverted from basin streams
(4) Consumptive use=column (2) and column (3)

WD-32
{URA 2}

Prog. Area: Watershed-Water
Prep. By: G. Lipscomb
Date: 29 July 77

WO-33

OUTPUT DESCRIPTION
Page 1 of 2

OUTPUT TITLE: Annual Consumptive Water Requirements by Type of Use

OUTPUT FORM: Printout/Data Display

OUTPUT DESCRIPTION: A table summarizing BLM annual consumptive water requirements by type of uses within a planning area (see attached)

USER(s): Hydrologist; Watershed Specialist; Planners; etc

LOCATION(s): SO's; DO's, RAH's; etc

USAGE: As input to Steps 2, 3, and 4 of URA

ACCESS LIMITATIONS: None

RESPONSE TIMES: DESIRED: 1 to 3 days REQUIRED: 1 week

FREQUENCY OF PRODUCTION: Monthly for RAH/DO specialists to annually for others

DEPENDENCIES: None

REQUEST PARAMETERS: State, Administrative (100-0004) or State, Geographic (100-0690); District, Administraitive (100-0543); Planning Unit (100-1075); County, Etc. (100-0546); Code, Watershed (145-5304).

WS 361

OUTPUT DESCRIPTION
Page 2 of 2

OUTPUT TITLE: Annual Consumptive Water Requirements by Type of Use

SORT ORDER: Identical to sequence of request parameter

ESTIMATED VOLUME: 1 to 3 copies per request with 2 pages/copy

COMPUTATIONS/PROCESSES: See attached copy

ACCURACY: N/A

SCALE: N/A

ANNOTATIONS: N/A

LEGEND: N/A

REMARKS: None

ANNUAL CONSUMPTIVE WATER REQUIREMENTS BY TYPE OF USE

Transaction Code ☐ Correct ☐ Delete	(0004) State 2 2	(0543) District 0 3	(1075) Planning Unit 0 2	(0546) County 0 1 4	(5304) WRC Subregion 1 6 0 5	(7308) Date 0 4 mo 7 5 yr

Name (1075)
Pyramid P.U.

TYPE OF WATER USE			ANNUAL REQUIREMENTS						
			URA-STEP 3 PRESENT (19)				URA-STEP 4 FUTURE		
RESOURCE OR SUPPORT ACTIVITY (5465)	SPECIFIC USE (5449)	ACTIVITY AND WATER UNITS (5468)	SURFACE FLOW	SURFACE STORAGE	SUBSURFACE	TOTAL	1985	2000	2020
Lands 1/	SLUP's	Acre-Feet							
	Rights-of-Way	Acre-Feet							
	Other (specify)	Acre-Feet	←(5462/5461)→						
Minerals 1/	Mining and Drilling	Number							
		Acre-Feet							
	Processing	Number							
		Acre-Feet							
Forest Products	Nursery Irrigation	Acres							
		Acre-Feet							
	Production Irrigation	Acres							
		Acre-Feet							
Range Management	Animal Use	AUM's				23,960	24,600	29,300	31,600
		Acre-Feet	.7	.5	22.7	23.9	24.7	29.4	31.7
	Pasture Irrigation	Acres							
		Acre-Feet							
Watershed	Watershed Irrigation	Acres							
		Acre-Feet							
	Water Control Structures	Number				9	9	30	45
		Acre-Feet		.6		.6	.6	2.0	3.0
Wildlife	Large Mammals	AUM's				9,600	9,600	9,500	9,600
		Acre-Feet	.9			.9	.9	.9	.9
	Other Wildlife	Acres				150,000	150,000	225,000	225,000
		Acre-Feet	.2			.2	.2	.3	.3
	Fish Product Facilities	Number							
		Acre-Feet							
	Waterfowl Habitat	Acres							
		Acre-Feet							
	Habitat Irrigation	Acres							
		Acre-Feet							

WS-363

WO-33
(URA 2, 3 & 4)
Page 1 of 2

ANNUAL CONSUMPTIVE WATER REQUIREMENTS BY TYPE OF USE, (Cont.)

TYPE OF WATER USE		ACTIVITY AND WATER UNITS (c)	ANNUAL REQUIREMENTS						
			URA – STEP 3 PRESENT (19)				URA – STEP 4 FUTURE		
RESOURCE OR SUPPORT ACTIVITY (a)	SPECIFIC USE (b)		SURFACE FLOW (d)	SURFACE STORAGE (e)	SUBSURFACE (f)	TOTAL (g)	1980 (h)	2000 (i)	2020 (j)
Recreation	Visitor Use	Rec. Days				20,000	24,000	28,800	36,000
		Acre-Feet			.9	.9	1.1	1.3	1.6
Fire Protection	Water Stored	Acre-Feet	2.7	.9		3.6	3.6	3.6	3.6
Construction and Maintenance	Roads	Miles							
		Acre-Feet							
	Trails	Miles				23	33	33	33
		Acre-Feet			.1	.1	.2	.2	.2
	Administration Sites	Number					3	11	17
		Acre-Feet							
	Administration Site Irrigation	Acres				1	1	1	1
		Acre-Feet	.5			.5	.5	.5	.5
Impoundments	Lakes and Ponds	Number				1	1	1	1
		Acre-Feet		531.5		531.5	531.5	531.5	531.5
Other *(specify)*	P	Acre-Feet							
Total Water Need		Acre-Feet	5.0	533.5	23.7	562.2	563.3	569.6	573.3

GENERAL INSTRUCTIONS

District Office prepares two copies. File one copy in District under 1736, and one copy in URA. Use the following ratios to convert and consolidate data on water requirements to an acre-foot base.

1 gallon = 231.0 cubic inches
1 cubic foot = 7.48052 gallons
1 acre-foot = 43560.0 cubic feet
1 cubic foot = 0.000022957 acre-feet
1 acre-foot = 32581.42857 gallons
1 gallon = 0.000003069 acre-feet
1 second foot (cfs) = 1.98347 acre-feet/day

SPECIFIC INSTRUCTIONS

(Items not listed are self explanatory)

Item
1 *Transaction Code* – For use after ADP programs have been developed.
2–4 These are mutually exclusive. If any one of these changes, prepare another Form 1600–19. For codes see BLM Manual section 1265.
5 *Water Resources Council Subregion* – Use the code numbers established by the (WRC) for river basin, and water and related land planning.

Column
(d)–(g) For each specific use in column (b), enter present annual requirements for each activity listed in column (a).
(h)–(j) Enter future requirements.
For further instructions see BLM Manual section 1605, Illustration 12.

WS-364.

WU-33
(URA 2, 3 & 4).
Page 2 of 2

Prog. Area: Watershed-Water
Prep. By: G. Lipscomb
Date: 29 July 77

WO-34

OUTPUT DESCRIPTION
Page 1 of 2

OUTPUT TITLE: Stream Diversions Table

OUTPUT FORM: Printout/Data Display

OUTPUT DESCRIPTION: A table summarizing information for stream diversions within a planning area (see attached)

USER(s): Hydrologist; Watershed Specialist; Planners, Etc.

LOCATION(s): SO's, DO's, RAH's, etc

USAGE: As input to Step 2 of URA

ACCESS LIMITATIONS: None

RESPONSE TIMES: DESIRED: 1 to 3 days REQUIRED: 1 week

FREQUENCY OF PRODUCTION: Monthly for RAH/Do specialists to annually for others

DEPENDENCIES: None

REQUEST PARAMETERS: State, Administrative (100-0004) or State, Geographic (100-0690); District, Administrative (100-0543); Planning Unit (100-1075); Code, Watershed (145-5304)

WS-365

OUTPUT DESCRIPTION
Page 2 of 2

OUTPUT TITLE: Stream Diversions Table

SORT ORDER: Identical to sequence of request parameter

ESTIMATED VOLUME: 1 to 3 copies per request with 1 to 3 pages/copy

COMPUTATIONS/PROCESSES: None

ACCURACY: N/A

SCALE: N/A

ANNOTATIONS: N/A

LEGEND: N/A

REMARKS: None

WS-366

WO-34
(URA 2)

STREAM DIVERSIONS TABLE

State (0004/0690)
District (0543)
P.U. Jackson River (1075)
Date 1/15/75 (7308)

Drainage Basin: Sacramento (5304)

(5454) Name	(2501/1695/1699) 1) Location	(5456) 2) Type	(5457) Owner or Agency	(5458) Annual Diversion (acre feet)
Acme Ditch	Sec 15 T20N R7W	Irrig.	Acme Cattle Co.	1,000
Rock Cr. Dam	Sec 22 T20N R7W	City Water System	Jacksonville City Water Dept.	2,000
Allen Pump	Sec 10 T20N R7W	Irrig.	B.O. Allen	80
Jones Pump	Sec 2 T20N R7W	Irrig.	Jones Ranch Inc.	200
Slide Cr. Ditch	Sec 1 T20N R7W	Livestock and Wildlife Water	BLM	10
3) Total P				3,290

1) Legal description.
2) Type refers to use made of the water.
3) Subtotal for each stream where more than one diversion is made.

WS-367

Prog. Area: Watershed-Water
Prep. By: G. Lipscomb
Date: 29 July 77

WO-35

OUTPUT DESCRIPTION
Page 1 of 2

OUTPUT TITLE: Table of Water Developments by Resource Activity

OUTPUT FORM: Printout/Data Display

OUTPUT DESCRIPTION: A table summarizing water development projects for a planning area (see attached)

USER(s): Watershed Specialist; Natural Resource Specialist; Planners, etc

LOCATION(s): SO's; DO's; RAH's; etc.

USAGE: As input to Step 2 of URA

ACCESS LIMITATIONS: None

RESPONSE TIMES: DESIRED: 1 to 3 days REQUIRED: 1 week

FREQUENCY OF PRODUCTION: Monthly for RAH/DO specialists to annually for others

DEPENDENCIES: None

REQUEST PARAMETERS: State, Administrative (100-0004) or State Geographic (100-0690); District, Administrative (100-0543); Planning Unit (100-1075); Type of Project (145-5463)

WS-368

WO-35

OUTPUT DESCRIPTION
Page 2 of 2

OUTPUT TITLE: Table of Water Developments by Resource Activity

SORT ORDER: Identical to sequence of request parameter

ESTIMATED VOLUME: 1 to 3 copies per request with 1 to 3 pages/copy

COMPUTATIONS/PROCESSES: None

ACCURACY: N/A

SCALE: N/A

ANNOTATIONS: N/A

LEGEND: N/A

REMARKS: Input for this output provided by JDR System (0005)

WS-369

WG-35

(URA 2)

TABLE OF WATER DEVELOPMENTS BY RESOURCE ACTIVITY

State (0004)
District (0543)
P.U. Little Hills (1075)

Date 8/17/74 (7308)

(5463) TYPE	(5464) OVERLAY KEY NO. OR PROJECT NO.	(5465) DIRECT BENEFITING RESOURCE ACTIVITY	(5466) MAJOR OBJECTIVE	(5467) (5468) AMOUNT/ SIZE
Reservoir	2536	Wildlife	Big Game Summer Water	1 ac. ft.
Guzzler	2764	Wildlife	Upland Game Water	300 gal.
Well	2765	Livestock	Distribute Grazing	30/gal/min

WS-370

Prog. Area: Watershed-Water
Prep. By: G. Lipscomb
Date: 29 July 77

WO-36

OUTPUT DESCRIPTION
Page 1 of 2

OUTPUT TITLE: Water Quality and Yield Overlay by Planning Unit

OUTPUT FORM: Map/Graphic Display

OUTPUT DESCRIPTION: A graphic display depicting the location of water quality monitoring stations, water quality problem areas, water yield areas, etc. (see attached)

USER(s): Hydrologist; Watershed Specialist; Water Quality Specialist, etc.

LOCATION(s): SO's; DO's; RAH's, etc

USAGE: As input to Step 3 for URA

ACCESS LIMITATIONS: None

RESPONSE TIMES: DESIRED: 1 to 3 days REQUIRED: 1 week

FREQUENCY OF PRODUCTION: Monthly for RAH/DO specialists to annually for others

DEPENDENCIES: None

REQUEST PARAMETERS: State, Administrative (100-0004) or State, Geographic (100-0690); District, Administrative (100-0543); Planning Unit (100-1075)

WS-371

WO-36

OUTPUT DESCRIPTION
Page 2 of 2

OUTPUT TITLE: Water Quality and Yield Overlay by Planning Unit

SORT ORDER: Identical to sequence of request parameter

ESTIMATED VOLUME: 1 to 3 copies per request with 1 page/copy

COMPUTATIONS/PROCESSES: (see attached sample)

ACCURACY: Within 5%

SCALE: Variable (filed at 1:24,000, 1:62,500 or 1:125,000)

ANNOTATIONS: (see attached sample)

LEGEND: Standard map symbols to depict boundaries of water quality/yield areas and station locations (see legend on sample)

REMARKS: None

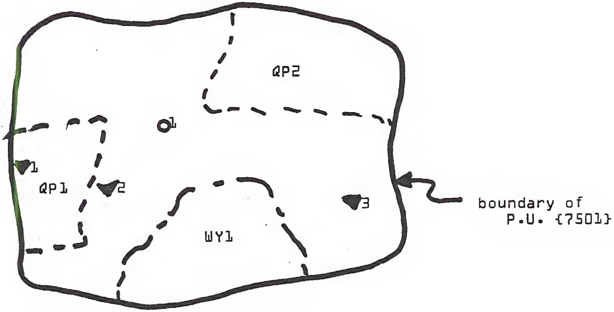
WS-372

WO-36
{URA 3}

WATER QUALITY & YIELD OVERLAY BY PLANNING UNIT

State: {0004} {0690}
District: {0543}
P.U.: {1075}

Date: {7308}



Legend

▼1	Water quality monitoring station No. 1 {Stream}
●1	Water quality monitoring station No. 1 {Well}
QP1	Water quality problem area {sediment from area with poor ground cover}
QP2	Water quality problem area {sediment from area with poor ground cover}
WY1	Significant water yield area {municipal water supply}

WS-373

Prog. Area: Watershed-Water
Prep. By: G. Lipscomb
Date: 29 July 77

WO-37

OUTPUT DESCRIPTION
Page 1 of 2

OUTPUT TITLE: Table of Significant Water Yield Areas

OUTPUT FORM: Printout/Data Display

OUTPUT DESCRIPTION: A table summarizing mean annual runoff and mean annual water yield for significant water yield areas within a planning area (see attached)

USER(s): Hydrologist;, Watershed Specialists, etc.

LOCATION(s): SO's, DO's, RAH's, etc

USAGE: As input to Step 3 of URA

ACCESS LIMITATIONS: None

RESPONSE TIMES: DESIRED: 1 to 3 days REQUIRED: 1 week

FREQUENCY OF PRODUCTION: Monthly for RAH/DO specialists to annually for others

DEPENDENCIES: None

REQUEST PARAMETERS: State, Administrative (100-0004) or State, Geographic (100-0690); District, Administrative (100-0543); Planning Unit (100-1075) Code, Watershed (145-5304)

WS-374

WO-37

OUTPUT DESCRIPTION
Page 2 of 2

OUTPUT TITLE: Table of Significant Water Yield Areas

SORT ORDER: Identical to sequence of request parameter

ESTIMATED VOLUME: 1 to 3 copies per request with 1 page/copy

COMPUTATIONS/PROCESSES: Computation of mean annual runoff (inches) and mean annual water yield (acre feet) from gauging station recorded values for a planning area

ACCURACY: N/A

SCALE: N/A

ANNOTATIONS: N/A

LEGEND: N/A

REMARKS: None

WS-375

TABLE OF SIGNIFICANT WATER YIELD AREAS

State: (0004) (0690)

Date: (7308)

District: (0543)

Planning Unit : (1075)

WS - 3796

Watershed Name	Map Key	Acres		Mean Annual Runoff (inches)	Mean Annual Water Yield (acre feet)
		BLM	Other		
(1) (5304)	(2) (4806)	(3) (6594)	(4) (6597)	(5) (5417)	(6) (5419)

(5) Runoff÷mean annual inches of estimated runoff
(6) Yield=[column (4) and (BLM and ohter acres)] ÷ 12

WO-37
(URA-3)

Prog. Area: Watershed-Water
Prep. By: G. Lipscomb
Date: 29 July 77

WO-38

OUTPUT DESCRIPTION
Page 1 of 2

OUTPUT TITLE: Flood and Sediment Damage Overlay

OUTPUT FORM: Map/Graphic Display

OUTPUT DESCRIPTION: A graphic display of the boundaries of flood/sediment damage areas and source areas within a planning area. (see attached)

USER(s): Hydrologists: Watershed Specialists; Water Quality Specialists Etc.

LOCATION(s): SO's; DO's; RAH's, etc.

USAGE: As input to Step 3 of URA

ACCESS LIMITATIONS: None

RESPONSE TIMES: **DESIRED:** 1 to 3 days **REQUIRED:** 1 week

FREQUENCY OF PRODUCTION: Monthly for RAH/DO specialists to annually for others

DEPENDENCIES: None

REQUEST PARAMETERS: State, Administrative (100-0004) or State, Geographic (100-0690); District, Administrative (100-0543); Planning Unit (100-1075)

WS-377

WO-38

OUTPUT DESCRIPTION
Page 2 of 2

OUTPUT TITLE: Flood and Sediment Damage Overlay

SORT ORDER: Identical to sequence of request parameter

ESTIMATED VOLUME: 1 to 3 copies per request with 1 page/copy

COMPUTATIONS/PROCESSES: See attached sample

ACCURACY: Within 5%

SCALE: Variable (filed at 1:24,000, 1:62,500 or 1:125,000)

ANNOTATIONS: See attached sample

LEGEND: Standard map symbols for depicting damage and source areas on a map for planning area (see legend on sample)

REMARKS: None

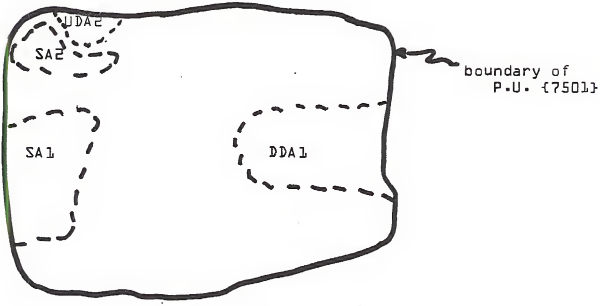
IUS-378

WO-38
{URA 3}

FLOOD & SEDIMENT DAMAGE OVERLAY

State: {0004} {0690}
District: {0543}
P.U. {1075}

Date: {7308}



DDA1	Damage area No. 1, developed
UDA2	Damage area No. 1, undeveloped
SA1	Source area for DDA1
SA2	Source area for UDA2

Prog. Area: Watershed-Water
Prep. By: G. Lipscomb
Date: 29 July 77

WO-39

OUTPUT DESCRIPTION
Page 1 of 2

OUTPUT TITLE: Flood and Sediment Damage Table

OUTPUT FORM: Printout/Data Display

OUTPUT DESCRIPTION: A table summarizing size, type of damage and annual damages for damage area within a planning area (see attached)

USER(s): Hydrologist: Water Quality Specialist; Watershed Specialist, etc.

LOCATION(s): SO's; DO's; RAH's, etc.

USAGE: As input to Step 3 of URA

ACCESS LIMITATIONS: None

RESPONSE TIMES: DESIRED: 1 to 3 days REQUIRED: 1 week

FREQUENCY OF PRODUCTION: Monthly for RAH/DO specialists to annually for others

DEPENDENCIES: None

REQUEST PARAMETERS: State, Administrative (100-0004) or State Geographic (100-0690); District, Administrative (100-0543); Planning Area (100-1075); Number, Flood and Sediment Damage Area (145-5471)

WS-38d

WG-39

OUTPUT DESCRIPTION
Page 2 of 2

OUTPUT TITLE: Flood and Sediment Damage Table

SORT ORDER: Identical to sequence of request parameter

ESTIMATED VOLUME: 1 to 3 copies per request with 1 page/copy

COMPUTATIONS/PROCESSES: None

ACCURACY: N/A

SCALE: N/A

ANNOTATIONS: N/A

LEGEND: N/A

REMARKS: None

FLOOD AND SEDIMENT DAMAGE TABLE

State: (0004) (0690)   Date: (7308)

District: (0543)

Planning Unit: (1075)

Damage Area	Acres	Type of Damage	Estimated Annual Damage (dollars)
(1)	(2)	(3)	(4)
(5471)	(5472)	(5473)	(5474)

WS-382

(1) Number on overlay for damage area
(2) Acres in damage area
(3) Code for type of damage (present or future)
(4) Estimated average annual dollar damage (present only)

WO-39

Prog. Area: Watershed-Water
Prep. By: G. Lipscomb
Date: 29 July 77

WO-40

OUTPUT DESCRIPTION
Page 1 of 2

OUTPUT TITLE: Water Use Overlay

OUTPUT FORM: Map/Graphic Display

OUTPUT DESCRIPTION: A graphic display of the location of water use areas for watershed within a planning area (see attached).

USER(s): Hydrologist; Watershed Specialist; Planners, etc. LOCATION(s): SO's; DO's; RAH's, etc

USAGE: As input to Step 3 of URA

ACCESS LIMITATIONS: None

RESPONSE TIMES: DESIRED: 1 to 3 days REQUIRED: 1 week

FREQUENCY OF PRODUCTION: Monthly for RAH/DO specialists to annually for others

DEPENDENCIES: None

REQUEST PARAMETERS: State, Administrative (100-0004) or State, Geographic (100-0690); District, Administrative (100-0543); Planning Unit (100-1075)

WS-383

WO-40

OUTPUT DESCRIPTION
Page 2 of 2

OUTPUT TITLE: Water Use Overlay

SORT ORDER: Identical to sequence of request parameter

ESTIMATED VOLUME: 1 to 3 copies per request with 1 page/copy

COMPUTATIONS/PROCESSES: See attached Sample

ACCURACY: Within 5%

SCALE: VAriable (filed at 1:24,000, 1:62,500 or 1:125,000

ANNOTATIONS: See attached sample output

LEGEND: Standard map symbols for depicting water use sites (see legend on sample)

REMARKS: None

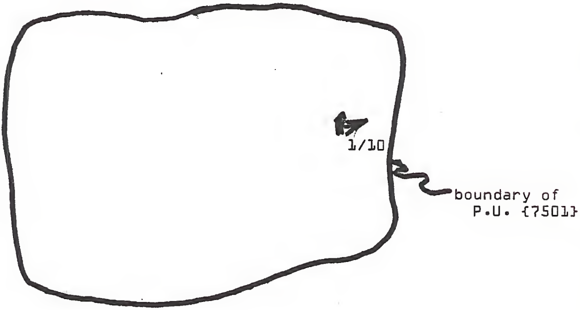
WS-384

WO-40

WATER USE OVERLAY

State: {0004} {0690}
District: {0543}
P.U.: {1075}

Date: {7308}



Legend

▲ Detention dam {1} reqiring average annual use of 10 acre-feet of water.

WS·385

WO-41

Prog. Area: Watershed-Water
Prep. By: G. Lipscomb
Date: 25 Aug. 77

OUTPUT DESCRIPTION
Page 1 of 2

OUTPUT TITLE: Narrative for Water Resources

OUTPUT FORM: Narrative

OUTPUT DESCRIPTION: A Step 2 URA Narrative describing the water resources of a planning area (See Attached).

USER(s): Hydrologist; Watershed Specialist; Planner; etc.

LOCATION(s): RAHs; DOs; SOs; etc.

USAGE:

As input to Step 2 of URA

ACCESS LIMITATIONS: None

RESPONSE TIMES: DESIRED: 1 to 3 days REQUIRED: 1 week

FREQUENCY OF PRODUCTION:

Monthly for specialists at RAH and DO to annually for those at SO.

DEPENDENCIES:

None

REQUEST PARAMETERS:

State, Administrative (100-0004) or State, Geographic (100-0690); District, Administrative (100-0543); Planning Unit (100-1075)

WS 386

OUTPUT DESCRIPTION
Page 2 of 2

WO-41

OUTPUT TITLE: Narrative for Water Resources

SORT ORDER: Identical to Request Parameters

ESTIMATED VOLUME: 1 to 3 copies per request

COMPUTATIONS/PROCESSES: None

ACCURACY: NA

SCALE:

NA

ANNOTATIONS:

NA

LEGEND:

NA

REMARKS:

None

WS-387

WO-41

NARRATIVE FOR WATER RESOURCES

State: {0004} {0690}　　　　Date: {8518}
District: {0543}
Planning Unit: {1075}

The planning unit is located in hydrolgic region . . . . (5469)

Trends in water use include . . . . (5469)

Ground-water aquifers include . . . . (5469)

WS-388

Prog. Area: Watershed-Water
Prep. By: G. Lipscomb
Date: 25 Aug. 77

WO-42

OUTPUT DESCRIPTION
Page 1 of 2

OUTPUT TITLE: Narrative for Water Quality and Yield

OUTPUT FORM: Narrative

OUTPUT DESCRIPTION: A Step 3 URA narrative for Watershed describing present water quality problems and annual water yields for a planning area (See Attached).

USER(s): Hydrologist; Water Quality Specialist; Watershed Specialist; etc.

LOCATION(s): RAHs; DOs; SOs; etc.

USAGE:

As input to Step 3, Watershed, of URA.

ACCESS LIMITATIONS: None

RESPONSE TIMES: DESIRED: 1 to 3 days REQUIRED: 1 week

FREQUENCY OF PRODUCTION: Monthly for specialists at RAH or DO to annually for those at SO

DEPENDENCIES: None

REQUEST PARAMETERS: State, Administrative (100-0004) or State, Geographic (100-0690); District, Administrative (100-0543) Planning Unit (100-1075)

WS-389

WO-42

OUTPUT DESCRIPTION
Page 2 of 2

OUTPUT TITLE: Narrative for Water Quality and Yield

SORT ORDER: Identical to request parameters

ESTIMATED VOLUME: 1 to 3 copies per request

COMPUTATIONS/PROCESSES: None

ACCURACY: NA

SCALE: NA

ANNOTATIONS: NA

LEGEND: NA

REMARKS: None

WS-390

WD-42

NARRATIVE FOR WATER QUALITY AND YIELD

State: {0004} {0690} Date: {8518}
District: {0543}
Planning Unit: {1075}

Water quality problem areas include . . . .
(5470)

Source areas for water quality problems include . . . .
(5470)

Uses affected by quality problems are . . . .
(5470)

Significant water yield areas . . . .
(5470)

WS-391

Prog. Area: Watershed-Water
Prep. By: G. Lipscomb
Date: 25 Aug. 77

OUTPUT DESCRIPTION
Page 1 of 2

WO-43

OUTPUT TITLE: Narrative for Flood and Sediment Damage

OUTPUT FORM:

Narrative

OUTPUT DESCRIPTION: A Step 3 URA narrative for Watershed describing flood and sediment damage problems in a planning area (See Attached).

USER(s): Hydrologist; Water Quality Specialist; Watershed Specialist; etc.

LOCATION(s): RAHs; DOs; SOs; etc.

USAGE:

As input to Step 3, Watershed, of URA

ACCESS LIMITATIONS: None

RESPONSE TIMES: DESIRED: 1 to 3 days REQUIRED: 1 week

FREQUENCY OF PRODUCTION:

Monthly for Specialists at RAH or DO to annually for those at SO

DEPENDENCIES:

None

REQUEST PARAMETERS:

State, Administrative (100-0004) or State, Geographic (100-0690); District, Administrative (100-0543); Planning Unit (100-1075)

WS-372

OUTPUT DESCRIPTION
Page 2 of 2

WO-43

OUTPUT TITLE: Narrative for Flood and Sediment Damage

SORT ORDER: Identical to request parameters

ESTIMATED VOLUME: 1 to 3 copies per request

COMPUTATIONS/PROCESSES: None

ACCURACY: NA

SCALE: NA

ANNOTATIONS: NA

LEGEND: NA

REMARKS: None

WO-43

NARRATIVE FOR FLOOD AND SEDIMENT DAMAGE

State: {0004} {0690}　　　　Date: {8518}
District: {0543}
Planning Unit: {1075}

Flood problems include . . . .
. . . .
(5475)

Specific sediment damages are occurring in . . . . .
. . . .
(5475)

WS-394

Prog. Area: Watershed-Water
Prep. By: G. Lipscomb
WO-44 Date: 25 Aug. 77

OUTPUT DESCRIPTION
Page 1 of 2

OUTPUT TITLE: Narrative for Water Use

OUTPUT FORM: Narrative

OUTPUT DESCRIPTION:
A Step 3 URA narrative for Watershed describing water use requirements within a planning area (See Attached).

USER(s): Hydrologist; Watershed Specialist; Planners; etc.

LOCATION(s): RAHs; DOs; SOs; etc.

USAGE:
As input to Step 3, Watershed, of URA

ACCESS LIMITATIONS:
None

RESPONSE TIMES: DESIRED: 1 to 3 days REQUIRED: 1 week

FREQUENCY OF PRODUCTION:
Monthly for specialists at RAH or DO to annually for those at SO.

DEPENDENCIES:
None

REQUEST PARAMETERS: State, Administrative (100-0004) or State, Geographic (100-0690); District, Administrative (100-0543); Planning Unit (100-1075).

WS-395

WO-44

OUTPUT DESCRIPTION
Page 2 of 2

OUTPUT TITLE: Narrative for Water Use

SORT ORDER: Identical to request parameters

ESTIMATED VOLUME: 1 to 3 copies per request

COMPUTATIONS/PROCESSES: None

ACCURACY: NA

SCALE:

NA

ANNOTATIONS:

NA

LEGEND:

NA

REMARKS:

None

WS-506

NARRATIVE FOR WATER USE

State: {0004} {0690}　　Date: {8518}
District: {0543}
Planning Unit: {1075}

Water uses for Watershed include . . . .
(5476)

Water rights are a problem in . . . .
(5476)

Special problems are associated with . . . .
(5476)

115-397

E. Inputs

This section contains a description and a sample for each input required for this program area.

Prog. Area: Watershed-Soils
Prep. By: G. Lipscomb
Date: 1 Aug 77

SI-1

DATA SOURCE DESCRIPTION
(DATA BASE MAINTENANCE)

TITLE/DESIGNATION: Soil Description Form, BLM Form 7310-9

FORM: Field Form

DESCRIPTION: A field form on which soil taxonomic unit data is recorded for each soil identified within an inventory area.

PREPARATION RESPONSIBILITY: BLM District Office, Resource Area Headquarters Office, or State Office Soil Scientist

FORMAT: (see attached sample input)

DATA ENTRY PROCEDURE: To be determined

FREQUENCY OF UPDATE: May not be recurring-- if updated, will not be more frequently that each 20-year period.

VOLUME OF UPDATE: To be determined

ARCHIVING REQUIREMENTS: Most likely will not be updated--if so, move old data to history file regardless of age and record new data.

ACCESS LIMITATIONS: Only Soil Scientists--locations to be determined later.

SPECIAL EDIT/AUDIT/VALIDATION REQUIREMENTS: To be developed

REMARKS: None

1:5-315

Soil Inventory Area (4600)

U.S. DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SOIL DESCRIPTION FORM

1. State 27 (0004)(0090)
2. District 64 (0543)
3. Planning Unit 16 (1615)
4. [redacted] Soil Unit (4683) Tele-Actc1, 4112
5. Soil Map Symbol (4660) 100
6. Surname IMDIGGER (6561)
7. Date (6630) 3 mo 70 yr
8. Area 21 (0418)
9. County 14 (0546)
10. Location (2521) Sec. 12 (1695), T. 24S (1699), R. 2S
11. Photo No. CHY19313 (5313)
14. Parent Rock Loess (4643)
15. Formation Name Carey Kipuka (5104)
16. Surface Conditions (percent) (4655) (4654) Stone – Rock –
17. [redacted] Soil Conditions Alkaline (4567) Saline (4548) HIGH Water table Depth
18. Landform Hilly & Rolling (5132)
19. Slope (percent) (3874) 3
20. Aspect (6523) S
21. Elevation (0431) 5045
22. Present Erosion (4667) Type Mass Movement (4712) SSF 50 Class 2 (4518)
23. Hydrologic Group (4562) C
24. Precipitation (in) 12-14 (0694)
25. Temperature (5376) (5377) (4684) (4665) 41 Air 62 Soil
26. Frost-free (4949) Days 92 > 28°
27. Drainage Class Mod. Well Drained (4514)
28. Infiltration Moderate (4516)
29. Percolation Moderate (4517)
30. ERD (0755) in
31. AWC (4533) 3.2 in

32. HORIZON	33. THICKNESS	34. COLOR DRY (4535) MOIST (4684) MATRIX	MOTTLING	35. TEXTURE	36. STRUCTURE	37. CONSISTENCY DRY MOIST	38. CUTANS	39. ROOTS	40. STONES % VOL. (4606)	41. REACTION (pH)	42. BOUNDARY
A11	0-5	4/2.3D 10YR 2/2.3M		Sil	2f & vfgr	so D fr M		3f & vf		6.3	cw
A12	5-15	4/3D 10YR 3/3M	5YR 4/6 D	Sil	2m & fsbK	vh D fi M		3m & f		6.4	gs
B2	15-23	5/3D 10YR 37/3M	5YR 4/6 D	Sicl	3m & fsbk & abk	ch D vfi M		2m & f		6.4	aw
B21b	23-34	5/3D 10YR 4/3M	5YR 4/6 D	Sic	3m & cpr 3m & fabk	ch D vfi M	4n pf	2m & f		7.0	cs
B2ca1b	34-44	6/3D 10YR 5/3M	10YR 8/2 D	lsic	3mpr to 3f & mabK	ch D fi M	1m to 4pf	2m & f		7.8	cw
B2ca2b	44-58	6/3D 10YR 5/3M	10YR 8/2 D	sic	2mpr to 3f & mabK	ch D fi M	1n			7.8	gs
B3ca3b	58-68	6/3D 10YR 5/3M	10YR 8/2 D	sicl	1mpr to 2 m & fsbK & abk	v to ch D fr M		1f & m		8.0	gs
Cca1b	68-79	7/3D 10YR 6/3M		sil		sh D fr M		1		7.8	
Ccam1b	79-91	7/3D 10YR 6/3M		sil	Thin lenses of cemented hardpan					8.2	
Ccam2b	91-108	8/3D 10YR 6/3M		sil	Weakly cemented.					8.0	
Cb	108-118	6/3D 10YR 5/3M		gsyl					30	7.8	
IIR	118	Basalt									
(4561)	(4547)			(4526)	(4653)	(4538)	(4555)	(4644)	(4606)	(4642)	(4686)

(Instructions inside back cover)

Form 7310-9 (November 1970)

May also include DEs (4598) and (4666)

Prog. Area: Watershed-Soils
Prep. By: G. Lipscomb
Date: 1 Aug 77

SI-2

DATA SOURCE DESCRIPTION
(DATA BASE MAINTENANCE)

TITLE/DESIGNATION: Physical Properties for Selected Soils, Revised BLM Form 7310-19

FORM: Coded data form

DESCRIPTION: A form on which the physical characteristics of soil taxonomic units are recorded for selected soils within an inventory area.

PREPARATION RESPONSIBILITY: Soil Scientists at Resource Area Headquarters, District Office, or State Office.

FORMAT: See attached sample input

DATA ENTRY PROCEDURE: To be determined

FREQUENCY OF UPDATE: May not be recurring--if updated, will not be more frequently than each 20-year period.

VOLUME OF UPDATE: To be determined

ARCHIVING REQUIREMENTS: Most likely will not be updated--if so, move old data to history file regardless of age and record new data.

ACCESS LIMITATIONS: Only soil scientists--locations to be determined later

SPECIAL EDIT/AUDIT/VALIDATION REQUIREMENTS: to be developed

REMARKS: None

65-400

TABLE 11

PHYSICAL PROPERTIES FOR SELECTED SOILS

Soil Series Symbol	Soil Name (4648)	(4645) Sample Number and Location	(4547) Depth From Surface	(4561) Horizon	PARTICLE SIZE DISTRIBUTION (percentage) Sand very coarse	coarse	medium	fine	very fine	total	Silt	Clay (4605)	(4526) Textural Class (5311)	(4629) MOISTURE HELD AT: 1/3 Bar (5311)	(4628) (5311) 15 Bars (4630) (5311)
371	Unnamed	S71-ORE-10-3 (1-4)	0- 3	A1	5.20	5.8	5.4	12.4	12.6	41.3	43.4	15.3	Loam	--	8.2
		NW¼SE¼ Sec. 29,	3- 9	B1	4.80	5.8	5.1	13.0	13.1	41.7	40.3	18.0	Loam	--	9.2
(4683)		T. 31 S., R. 7 W.	9-24	B2	3.30	5.7	5.2	0.8	24.6	39.7	38.8	21.5	Loam	--	8.4
			24-34	B3	3.70	5.5	5.1	6.8	18.2	39.5	39.8	20.7	Loam	--	9.2
380	Pollard	S71-ORE-10-4 (1-5)	0- 6	A1	4.50	3.9	3.6	8.6	8.5	29.1	43.8	27.7	Clay loam	--	12.7
		SW¼SW¼ Sec. 29,	6-15	B1	2.50	4.1	3.7	8.2	8.4	27.0	42.7	30.4	Clay loam	--	12.7
		T. 31 S., R. 7 W.	15-28	B21t	2.80	3.1	3.2	0.7	3.9	23.5	37.2	39.3	Clay loam	--	18.8
			28-48	B22t	2.10	3.2	3.7	5.4	7.7	22.1	28.7	49.2	Clay	--	22.5
			48-70	B3	1.10	1.7	2.0	0.8	3.4	19.1	32.6	48.4	Clay	--	22.7
380	Pollard	S71-ORE-10-2 (1-5)	0- 6	A1	4.80	5.4	3.4	1.0	11.2	25.8	34.9	39.3	Clay loam	--	18.9
		NW¼SW¼ Sec. 11,	6-12	B1	4.40	4.3	2.9	5.0	6.0	22.5	35.5	42.0	Clay	--	23.4
		T. 31 S., R. 8 W.	12-28	B21t	2.90	3.7	2.4	4.6	5.5	18.9	23.5	57.6	Clay	--	30.2
			28-40	B22t	2.90	3.4	2.3	1.0	7.9	17.5	26.4	56.2	Clay	--	29.6
			40-70	B3	4.20	5.0	3.5	3.5	9.2	25.3	20.1	54.6	Clay	--	28.7
721	Siskiyou	S71-ORE-17-1 (1-5)	0- 4	A1	1.06	16.1	11.3	17.6	13.8	59.8	29.3	10.9	Sandy loam	29.5	9.9
		NW¼SE¼SE¼ Sec. 36,	4-11	A3	1.47	17.9	11.8	8.6	22.0	61.8	29.1	9.2	Sandy loam	21.1	6.3
		T. 35 S., R. 6 W.	11-19	B2	1.41	17.6	12.0	17.4	12.3	60.7	30.7	8.6	Sandy loam	18.7	5.6
			19-31	C1	0.89	16.7	11.5	17.6	13.2	59.9	31.9	8.2	Sandy loam	19.1	5.5
			31-40	C2	1.24	20.9	12.8	21.5	14.2	70.7	20.5	8.8	Sandy loam	--	6.4
722	Holland	S71-ORE-17-2 (1-7)	0- 4	A1	1.60	16.2	10.8	16.1	11.6	56.3	30.0	13.7	Sandy loam	23.7	6.8
		NW¼SW¼SE¼ Sec. 4,	4- 8	A3	1.40	14.5	11.0	0.9	26.6	54.5	32.9	12.5	Sandy loam	--	6.0
		T. 36 S., R. 6 W.	8-14	B1	0.60	13.2	10.5	11.2	15.9	52.4	29.9	17.7	Sandy loam	20.0	6.9
			14-28	B21t	0.80	11.5	9.5	10.8	15.1	47.7	28.2	24.1	Sandy clay loam	21.8	10.8
			28-34	B22t	1.10	13.5	10.5	15.2	12.7	53.0	28.2	18.9	Sandy loam	--	10.1
			34-49	B3	2.40	18.9	11.5	16.2	12.4	61.4	27.0	11.6	Sandy loam	--	--
			49-60	C1	1.30	15.3	11.4	18.0	14.1	60.1	28.6	11.3	Sandy loam	--	--
*741	Freezner	SE¼SE¼ Sec. 21,	0- 9	A1	4.90	8.9	3.2	6.2	5.5	28.7	47.1	24.2	Loam	--	14.9
		T. 28 S., R. 2 E.	9-16	B1	1.00	4.2	2.6	6.0	5.6	19.4	46.7	33.9	Clay loam	--	22.5
			16-24	B21t	0.70	2.4	1.9	5.0	5.3	15.3	41.2	43.5	Silty clay	--	24.9
			24-32	B22t	0.40	2.7	2.1	5.2	5.0	15.4	33.3	46.3	Clay	--	26.5
			32-45	B23t	0.50	2.6	2.5	5.6	5.1	16.3	39.5	44.2	Clay	--	26.8
			45-56	B3t	0.80	3.3	3.0	6.6	6.3	20.0	41.5	38.5	Clay loam	--	26.0
			56-72	C1	1.10	4.1	3.7	7.5	7.2	23.6	39.2	37.2	Clay loam	--	21.2
*750	Dumont	NE¼NE¼ Sec. 10,	0- 4	A11	5.50	8.7	4.7	9.0	6.3	34.2	47.7	18.1	Loam	--	15.3
		T. 29 S., R. 1 E.	4- 9	A12	3.60	8.1	4.7	8.6	6.8	31.8	45.8	22.6	Loam	--	11.9
			9-14	B1	3.60	7.3	4.3	8.0	5.8	29.0	43.0	28.0	Clay loam	--	11.8
			14-22	B21t	4.50	6.8	4.1	7.0	5.4	27.8	42.1	20.1	Clay loam	--	12.9
			22-35	B22t	3.80	4.2	3.1	5.9	4.6	21.6	35.3	43.1	Clay	--	17.0
			35-45	B23t	2.60	3.6	2.9	6.1	5.0	20.2	34.3	45.5	Clay	--	18.0
			45-52	B24t	1.80	2.7	2.2	4.8	4.2	15.7	32.4	51.9	Clay	--	21.8
			52-62	B25t	0.70	1.4	2.4	4.5	1.4	10.4	33.5	56.1	Clay	--	30.1
			62-72	C	0.50	1.7	2.7	10.6	8.7	24.2	37.9	37.9	Clay loam	--	26.9

State : (0004) (0690)
District: (0543)
Soil Inventory Area: (4600)

*Data taken from South Umpqua Area Soil Survey (Ref. 15).

[illegible]

Prog. Area: Watershed-Soils
Prep. By: G. Lipscomb
Date: 1 Aug 77

SI-3

DATA SOURCE DESCRIPTION
(DATA BASE MAINTENANCE)

TITLE/DESIGNATION: Chemical Properties for Selected Soils, Revised BLM Form 7310-20

FORM: Coded data form

DESCRIPTION: A form on which the chemical characteristics of soil taxonomic units are recorded for selected soils within an inventory area.

PREPARATION RESPONSIBILITY: Soil Scientists at Resource Area Headquarters, District Office, or State Office.

FORMAT: See attached sample input

DATA ENTRY PROCEDURE: To be determined

FREQUENCY OF UPDATE: May not be recurring-- if updated, will not be more frequently than each 20-year period.

VOLUME OF UPDATE: To be determined

ARCHIVING REQUIREMENTS: Most likely will not be updated--if so, move old data to history file regardless of age and record new data. Retain historical data indefinitely.

ACCESS LIMITATIONS: Only soil scientists--Locations to be determined later

SPECIAL EDIT/AUDIT/VALIDATION REQUIREMENTS: To be developed

REMARKS: None

115-402

TABLE 12 (4683)

CHEMICAL PROPERTIES FOR SELECTED SOILS

(4683) Soil Series Symbol	(4648) Soil Name	(4645) Sample Number and Location	(4547) Depth From Surface	(4561) Horizon	(4642) Soil Reaction (Water 1:1) (pH)	(4612) (5311) Organic Matter (percent)		EXTRACTABLE CATIONS meq/100g (4528) Ca	(4531) Mg	(4530) Na	(4529) K	H+	(4527) Cation Exchange Capacity meq/100g	(4604) Percent Base Saturation[1]
371	Unnamed	S71-ORE-10-3 (1-4) NW¼SE¼ Sec. 29, T. 31 S., R. 7 W.	0- 3	A1	5.6	2.20	23	5.10	1.40	0.05	0.56	8.3	15.41	46.1
			3- 9	B1	5.6	4.30	30	7.10	1.70	0.07	0.56	11.5	20.93	45.1
			9-24	B2	5.7	1.20	7	4.40	1.30	0.10	0.63	13.1	19.53	32.9
			24-34	B3	[illegible]	1.40 (5311)	5	5.10	1.50	0.10	0.58	16.3	23.58	44.7
380	Pollard	S71-ORE-10-4 (1-5) SW¼SW¼ Sec. 29, T. 31 S., R. 7 W.	0- 6	A1	5.4	4.50	9	5.10	1.70	0.07	1.00	13.9	21.77	36.2
			6-15	B1	5.5	1.40	3	2.40	1.50	0.05	0.92	10.0	14.87	32.8
			15-28	B21t	5.5	0.90	3	2.00	2.40	0.10	0.90	11.1	16.40	32.7
			28-48	B22t	5.4	0.40	2	0.68	2.10	0.10	0.69	13.2	16.77	21.3
			48-70	B3	5.4	0.30	2	0.17	1.90	0.10	0.46	15.0	17.63	14.9
380	Pollard	S71-ORE-10-2 (1-5) NW¼SW¼ Sec. 11, T. 31 S., R. 8 W.	0- 6	A1	4.7	6.30	3	8.50	0.35	0.07	0.34	18.9	28.16	30.4
			6-12	B1	4.9	4.30	2	0.34	0.42	0.05	0.36	19.4	20.57	4.9
			12-28	B21t	5.2	1.80	2	0.68	0.56	0.05	0.51	18.1	19.90	9.0
			28-40	B22t	5.4	0.80	2	0.17	0.21	0.05	0.28	17.0	17.70	4.0
			40-70	B3	5.3	1.00	2	0.17	0.28	0.02	0.31	17.3	18.08	4.3
721	Siskiyou	S71-ORE-17-1 (1-5) NW¼SE¼SE¼ Sec. 3, T. 35 S., R. 6 W.	0- 4	A1	6.5	6.73	177	12.20	1.30	0.10	0.58	11.0	25.18	56.3
			4-11	A3	6.3	2.68	82	5.10	0.56	0.07	0.46	6.7	12.89	48.0
			11-19	B2	6.0	0.81	21	3.40	0.56	0.07	0.36	4.9	9.29	47.3
			19-31	C1	6.0	--	9	4.10	0.90	0.10	0.31	4.0	9.41	57.5
			31-40	C2	5.8	--	--	7.80	2.20	0.14	0.31	4.0	14.45	72.3
722	Holland	S71-ORE-17-2 (1-7) NW¼SE¼NE¼ Sec. 4, T. 36 S., R. 6 W.	0- 4	A1	6.3	3.64	63	6.40	1.40	0.10	0.42	6.3	14.62	56.9
			4- 8	A3	6.0	0.96	21	3.70	1.10	0.10	0.22	4.1	9.22	55.5
			8-14	B1	5.9	0.71	9	3.40	1.50	0.10	0.11	4.1	9.21	55.5
			14-28	B21t	5.6	--	2	4.70	3.60	0.14	0.07	4.3	12.81	66.4
			28-34	B22t	5.7	--	--	5.70	4.30	0.24	0.07	4.2	14.51	71.1
			34-49	B3	5.5	--	2	7.40	5.10	0.19	0.03	3.1	15.82	80.4
			49-60	C1	5.8	--	--	8.10	4.90	0.24	0.03	3.0	16.27	81.6
[2] 741	Freezner	SE¼SE¼ Sec. 21, T. 28 S., R. 2 E.	0- 9	A1	5.4	2.30	--	9.80	3.10	0.10	0.90	20.8	39.80	40.0
			9-16	B1	5.2	0.77	--	10.20	4.20	0.20	0.80	18.7	37.40	45.0
			16-24	B21t	5.2	0.49	--	11.30	4.80	0.20	0.90	17.6	38.10	49.0
			24-32	B225	5.1	0.23	--	11.60	5.20	0.10	1.10	16.4	37.80	52.0
			32-45	B23t	5.0	0.20	--	11.40	5.30	0.10	1.20	16.3	39.50	52.0
			45-56	B3t	5.1	0.14	--	10.80	5.40	0.20	1.20	16.4	33.50	52.0
			56-72	C1	5.2	0.20	--	8.60	4.70	0.20	1.20	17.6	36.50	47.0
[2] 750	Dumont	NE¼NE¼ Sec. 10, T. 29S., R. 1 E.	0- 4	A11	6.4	4.47	--	14.50	1.90	0.10	1.00	18.5	33.40	49.0
			4- 9	A12	5.8	1.50	--	4.60	1.60	0.10	0.70	13.5	21.20	34.0
			9-14	B1	5.6	0.69	--	4.40	1.20	0.10	0.70	11.1	18.00	37.0
			14-22	B21t	5.4	0.41	--	5.00	2.10	0.40	0.40	9.4	18.80	46.0
			22-35	B22t	5.4	0.20	--	3.80	2.20	0.10	0.30	13.6	20.70	32.0
			35-45	B23t	5.3	0.11	--	3.90	2.40	0.10	0.30	13.4	22.90	33.0
			45-52	B24t	5.3	0.08	--	3.90	2.80	0.10	0.30	19.0	34.10	27.0
			52-62	B25t	5.0	0.12	--	4.80	5.00	0.10	0.40	37.1	51.20	22.0
			62-72	C	4.8	0.18	--	2.80	5.70	0.10	0.30	37.6	45.00	19.0

State: (0004) (0690)
District: (0543)
Soil Inventory Area: (4600)

May also include DEs (4506), (4507), (4508), (4509), (4513), (4537), (4609), (4632), (4639) and (4640)

Prog. Area: Watershed-Soils
Prep. By: G. Lipscomb
Date: 1 Aug 77

SI-4

DATA SOURCE DESCRIPTION
(DATA BASE MAINTENANCE)

TITLE/DESIGNATION: Engineering Properties of Soils (Estimated), Revised BLM Form 7310-22.

FORM: Coded data form

DESCRIPTION: A form on which estimated engineering properties of soil taxonomic units are recorded for an inventory area.

PREPARATION RESPONSIBILITY: Soil Scientist at Resource Area Headquarters, District Office or State Office

FORMAT: See attached sample input

DATA ENTRY PROCEDURE: To be determined

FREQUENCY OF UPDATE: May not be recurring--if updated, will not be more frequent than each 20-year period.

VOLUME OF UPDATE: To be determined

ARCHIVING REQUIREMENTS: Most likely will not be updated--if so, move old data to history file regardless of age, and record new data.

ACCESS LIMITATIONS: Only soil scientists--location to be determined later

SPECIAL EDIT/AUDIT/VALIDATION REQUIREMENTS: To be developed

REMARKS: None

115-2/021

County: (0546)
State: (0004) (0690)
District: (0543)
TABLE 3 Soil Inventory Area: (4600)

ENGINEERING PROPERTIES OF SOILS (Estimated)

(468?)	(4648)	(4547)	(4549)	(4562)	(4635)	CORROSIVITY (4540)	(4539)	CLASSIFICATION			(4605)		
Soil Series Symbol	Soil Name	Depth From Surface (inches)	Depth to Bedrock (inches) (4546)	Hydrologic Group	Shrink/ Swell Potential	Uncoated Steel	Concrete	USDA Texture (4526)	Unified (4533)	AASHO (4522)	Coarse Fragments >3" (percent) 4606	Liquid Limit (percent) (4571)	Plasticity Index 4564
36	Witzel	0-19	12-20	D	Low	Moderate	Moderate	Very cobbly silty clay loam 5311	GC or CL	A-6	30-60	35-40	15-20
370	Unnamed	0-60	40+	B	Moderate	Moderate	Moderate	Gravelly clay loam	CL	A-6	0-40	25-35,	15-20
371	Unnamed	0- 9	20-40	B	Low	Moderate	Moderate	Loam	ML or CL-ML	A-4 or A-6	0	25-35	5-10
		9-34			Low	High	Moderate	Very gravelly loam	GM	A-2	0-20	25-35	5-10
372	Unnamed	0-18	12-20	D	Low	Moderate	Moderate	Very gravelly loam	GM	A-4 or A-2	0-20	20-30	5-10
380	Pollard	0- 9	40+	C	Low	Moderate	Low	Loam or clay loam	ML or CL	A-6	0-15	35-40	10-15
		9-50			Moderate	High	Moderate	Clay	ML or MH	A-7-5	0	45-55	15-20
381	Unnamed	0-14	20-40	C	Low	Moderate	Low	Gravelly loam or gravelly clay loam	ML or GM	A-4 or A-6	0	25-40	5-15
		14-34			Moderate	High	Moderate	Gravelly clay or gravelly clay loam	CL or ML	A-6, A-7-5	0-20	35-50	15-25
382	Unnamed	0-11	40+	C	Low	Moderate	Low	Gravelly clay loam	GM	A-4 or A-6	0-10	25-40	5-15
		11-74			Moderate	High	Moderate	Very gravelly clay or very gravelly silty clay	GC or CL	A-7-5	0-20	45-55	15-20
701	Unnamed	0- 8	12-20	D	Low	Low	Low	Gravelly loam	SM	A-4, A-2	0-20	20-30	NP- 5
		8-13			Low	Low	Low	Very gravelly loam	GM or CL	A-4 or A-6	0-20	20-30	5-10
704	Carney	0-30	20-40	D	High	High	Low	Clay	CH	A-7-6	0-30	60-75	35-45
705	Unnamed	0- 7	20-40	C	Low	Low	Low	Cobbly clay loam	ML or CL	A-4	0-35	30-35	5-10
		7-31			Moderate	Moderate	Low	Very cobbly clay	CG	A-6, A-7-5	30-60	35-50	15-25
706	Medco	0-13	20-40	D	Moderate	Moderate	Low	Loam or clay loam	ML, SM or GM	A-6 or A-4	0-40	30-40	5-15
		13-27			High	High	Low	Clay	CH	A-7	0-20	60-80	35-50
710	Coker	0-70	40+	D	High	High	Low	Clay	CH	A-7	0- 5	60-75	35-45
712	Jumpoff	0- 5	40+	C	Moderate	Low	Low	Gravelly clay loam	CL-ML, ML	A-4	0	25-35	5-10

WS-405

SI-4

Prog. Area: Watershed-Soils
Prep. By: G. Lipscomb
Date: 1 Aug 77

SI-5

DATA SOURCE DESCRIPTION
(DATA BASE MAINTENANCE)

TITLE/DESIGNATION: Forest Management Interpretations, Revised BLM Form 7310-24

FORM: Coded data form

DESCRIPTION: A form on which forest management interpretive data for soil taxonomic units are recorded for an inventory area.

PREPARATION RESPONSIBILITY: Soil Scientists at Resource Area Headquarters, District Office or State Office

FORMAT: See attached sample input

DATA ENTRY PROCEDURE: To be determined

FREQUENCY OF UPDATE: May not be recurring--If updated, will not be more frequently than each 20-year period.

VOLUME OF UPDATE: To be determined

ARCHIVING REQUIREMENTS: Most likely will not be updated--if so, move old data to history file regardless of age and record new data. Retain historical data indefinitely.

ACCESS LIMITATIONS: Only soil scientists--locations to be determined later

SPECIAL EDIT/AUDIT/VALIDATION REQUIREMENTS: To be developed

REMARKS: None

FOREST MANAGEMENT INTERPRETATIONS

	Soil Series Symbol	Soil Name	Species	Productivity Site Index and Class[2]	Regeneration Hazard (Bare Root)	Remarks
	(2083)	(4648)	(5767)	(5751) (5750)	(4559/4558)	(6954)
	36	Witzel	--		--	Nonforest soils.
[1]	370/n	Unnamed, northerly aspect	Douglas-fir	150-III (4)	Slight	Soils with higher site index receive seepage water. Windthrow is a hazard in the Low Divide area.
[1]	370	Unnamed, southerly aspect	Douglas-fir	130-III (1)	Moderate	Soils with higher site index receive seepage water. Windthrow is a hazard in the Low Divide area.
[1]	371/n	Unnamed, northerly aspect	Douglas-fir	115-IV (3)	Moderate	
[1]	371	Unnamed, southerly aspect	Douglas-fir	115-IV (3)	Severe	
[1]	372/n	Unnamed, northerly aspect	Douglas-fir	100-V (3)	Severe	
[1]	372	Unnamed, southerly aspect	Douglas-fir	80-V (1)	Severe	
[1]	380/n	Pollard, northerly aspect	Douglas-fir	III	Slight	
[1]	380	Pollard, southerly aspect	Douglas-fir	145-III (3)	Moderate	Site class is lower near zones of low precipitation.
[1]	381/n	Unnamed, northerly aspect	Douglas-fir	130-III (1)	Moderate	
[1]	381	Unnamed, southerly aspect	Douglas-fir	125-IV (2)	Severe	
[1]	382/n	Unnamed, northerly aspect	Douglas-fir	120-IV	Moderate	Site class data are from forest inventory records.
	382	Unnamed, southerly aspect	Douglas-fir	115-IV (5)	Moderate	
	701/n	Unnamed, northerly aspect	Douglas-fir Ponderosa pine	80-V 80-V	Severe Severe	Site class data are from SCS records. Site class data are from SCS records.
	701	Unnamed, southerly aspect	--	--	--	Nonforest soils.
	704	Carney	--	--	--	Nonforest soils.
	705/n	Unnamed, northerly aspect	Douglas-fir	85-V	Severe	Site class data are from SCS records.
	705	Unnamed, southerly aspect		--	--	Nonforest soils.
	706/n	Medco, northerly aspect	Douglas-fir	90-V (1)	--	Site class data are from SCS records.
	706	Medco, southerly aspect	--	--	--	Nonforest soils.
	710	Coker	--	--	--	Nonforest soils.
	712/n	Jumpoff, northerly aspect	Douglas-fir	105-IV	Severe	Site class data are from forest inventory records.
	712	Jumpoff, southerly aspect	Douglas-fir	90-V	Severe	Site class data are from forest inventory records.
	715	Brader	--	--	--	Nonforest soils.
	716	Debenger	--	--	--	Nonforest soils.
	718/n	Beekman, northerly aspect	Douglas-fir	110 to 90-IV to V	Severe	Site class data are from SCS records. Productivity is higher at elevations above [illegible] feet.
	718	Beekman, southerly aspect	Douglas-fir	95-V	Severe	Site class data are from forest inventory records.

[1] Soils with measured data.

[2] From tables in Field Instructions for Integrated Forest Survey and Timber Management Inventories in Western Oregon, 196[illegible]. BLM, Portland, Oregon. The number in parentheses show number of plots examined with 3 to 5 trees per plot.

State: (0690) (0004)
District: (0543)
Soil Inventory Area: (4600)

(0115-412)

Prog. Area: Watershed-Soils
Prep. By: G. Lipscomb
Date: 1 Aug 77

SI-6

DATA SOURCE DESCRIPTION
(DATA BASE MAINTENANCE)

TITLE/DESIGNATION: Range Management Interpretations, Revised BLM Form 7310-25

FORM: Coded data form

DESCRIPTION: A form on which range management interpretive data for soil taxonomic units are recorded for an inventory area.

PREPARATION RESPONSIBILITY: Soil Scientists at Resource Area Headquarters, District Office or State Office

FORMAT: see attached sample input

DATA ENTRY PROCEDURE: To be determined

FREQUENCY OF UPDATE: May not be recurring--if updated, will not be more frequently than each 20-year period.

VOLUME OF UPDATE: To be determined

ARCHIVING REQUIREMENTS: Most likely will not be updated--if so, move old data to history file regardless of age, and record new data. Retain historical data indefinitely.

ACCESS LIMITATIONS: Only soil scientists--locations to be determined later

SPECIAL EDIT/AUDIT/VALIDATION REQUIREMENTS: to be developed

REMARKS: None

105-1108

RANGE MANAGEMENT INTERPRETATIONS
State: (0690) (0004)
District: (0543)

Soil Inventory Area: (4600)

Soil Symbol (4682)	Soil Name (4648)	Vegetation Sub-Type (2706)	Key Species and Percent Cover (2631)	(3824)	Productive Capacity Potential (4534)	Normal Growing Season (0997) (0998)	Normal Grazing Season (3845)
* 36/n	Witzel, northerly aspect	--	--	--	--	--	--
* 36	Witzel, southerly aspect	--	--	--	--	--	--
*370	Unnamed	--	--	--	--	--	--
*371	Unnamed	--	--	--	--	--	--
*372	Unnamed	--	--	--	--	--	--
*380	Pollard	--	--	--	--	--	--
*381	Unnamed	--	--	--	--	--	--
*382	Unnamed	--	--	--	--	--	--
*701/n	Unnamed, northerly aspect	--	--	--	--	--	--
*701	Unnamed, southerly aspect	--	--	--	--	--	--
704	Carney, southerly aspect	Oak - Pine - Oatgrass	White oak Ponderosa pine California oatgrass Idaho fescue	35-50 5-15 50-65 1- 5	2-3	2/15-7/1	--
706	Medco, southerly aspect	Oak - Pine - Fescue	White oak Ponderosa pine Idaho fescue	50-70 Trace -3 35-45	2-5	2/15-6/15	--

* These soils are not now used for grazing, or information is not available.

Prog. Area: Watershed-Soils
Prep. By: G. Lipscomb
Date: 1 Aug 77

SI-7

DATA SOURCE DESCRIPTION
(DATA BASE MAINTENANCE)

TITLE/DESIGNATION: Watershed Management Interpretations, Revised BLM Form 7310-26

FORM: Coded data form

DESCRIPTION: A form on which watershed management interpretive data for soil taxonomic units are recorded for an inventory area

PREPARATION RESPONSIBILITY: Soil Scientists at Resource Area Headquarters, District Office or State Office

FORMAT: see attached sample input

DATA ENTRY PROCEDURE: To be determined

FREQUENCY OF UPDATE: May not be recurring--if updated, will not be more frequently than each 20-year period.

VOLUME OF UPDATE: To be determined

ARCHIVING REQUIREMENTS: Most likely will not be updated--if so, move old data to history file regardless of age, and record new data

ACCESS LIMITATIONS: Only soil scientists--locations to be determined later

SPECIAL EDIT/AUDIT/VALIDATION REQUIREMENTS: To be developed

REMARKS: None

115-410

1/17-5/71

State: (0690) (0004)
District: (0543)
Soil Inventory Area: (4600)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

WATERSHED MANAGEMENT
INTERPRETATIONS

MAP SYMBOL (1)	SOIL NAME (2)	SOIL LIMITATIONS TO VEGETATIVE MANIPULATION AND WATERSHED TILLAGE PRACTICES MECHANICAL EQUIPMENT USAGE												OTHER INTERPRETATION (15)
		RANGELAND		CHAINING (5)	CONTOUR FURROWING (6)	RIPPING (7)	PITTING (8)	TERRACING (9)	TRENCHING (10)	WATERSPREADING		SEEDING (13)		
		DRILL (3)	DISC PLOW (4)							CONSTRUCTION (11)	IRRIGABLE (12)			
4009	Colby loam 3-8% Slope	Slight; 3-8% Slope >20"	Slight; 3-8% Slope >20"	slight; 3-8% slope >20"	Mod; 20"-40" deep	Mod; 20"-40" deep	Mod; 20"-40" deep	Severe; <40" deep	Mod; 20-40" deep	Severe; <40" deep	Fair; 20"-40" deep	Slight; >6" Awc >20" deep	40-50 Agsm	
(4683)	(4648)	←					(4573 4572)					→	←	(6954)

Remarks

(Instructions on reverse)

Form 7310–26 (August 1973)

Prog. Area: Watershed-Soils
Prep. By: G. Lipscomb
Date: 1 Aug 77

SI-8

DATA SOURCE DESCRIPTION
(DATA BASE MAINTENANCE)

TITLE/DESIGNATION: Wildlife Management Interpretations, Revised BLM Form 7310-27

FORM: Coded data form

DESCRIPTION: A form on which wildlife management interpretive data for soil taxonomic units are recorded for an inventory area

PREPARATION RESPONSIBILITY: Soil Scientists at Resource Area Headquarters, District Office or State Office

FORMAT: See attached sample input

DATA ENTRY PROCEDURE: to be determined

FREQUENCY OF UPDATE: May not be recurring--if updated, will not be more frequently than each 20-year period

VOLUME OF UPDATE: To be determined

ARCHIVING REQUIREMENTS: Most likely will not be updated--if so, move old data to history file regardless of age, and record new data. Retain historical data indefinitely.

ACCESS LIMITATIONS: Only soil scientists--locations to be determined later

SPECIAL EDIT/AUDIT/VALIDATION REQUIREMENTS: To be developed

REMARKS: None

115-412

WS-4/2.1

WILDLIFE MANAGEMENT INTERPRETATIONS

Watershed or Area (5304)	Dominant Soils (4683/4648)	KEY SPECIES Wildlife (6532)	KEY SPECIES Browse (3711)	KEY SPECIES Cover (3711)	*Forest Practices/ Wildlife Habitat Conflict (6546/6542)	Wildlife Management Unit (6549)	Remarks (6954)
Little Applegate	701, (718) Beekman, (719) Manzanita, (781) Colestine	Black-tailed Deer	Wedgeleaf ceanothus, Mountain mahogany, Black oak, White oak	Ponderosa pine, Douglas-fir, Madrone, Manzanita	Critical Winter Range	Applegate (east)	Deer feed mostly on southerly aspects; cover is on northerly aspects.
Deer Creek	(770) Pearsoll, (R) Rock Land, 371, 372	Black-tailed Deer	Wedgeleaf ceanothus	Douglas-fir, Jeffrey pine, Incense-cedar, Ponderosa pine	Critical Winter Range	Applegate (west)	Deer feed in open brushfields supported by serpentinitic soils; cover is on adjacent forested soils.
Klamath River, Ward Road	880, 882, 790, (R) Rock Land	Black-tailed Deer	Wedgeleaf ceanothus, Fremont silktassel, Snowbrush ceanothus	Douglas-fir, Ponderosa pine, White fir, Juniper	Critical Winter Range	Keno	Deer concentrate in open areas adjacent to plantations.
Agate Flat	(36) Witzel, 705, (R) Rock Land, (706) Medco, (745) Laurelhurst, 840, 842, 850	Black-tailed Deer	Wedgeleaf ceanothus, Serviceberry, White oak	Ponderosa pine, Douglas-fir, White fir, White oak	Critical Winter Range	Rogue	Deer feed on open southerly aspects; cover is in drainageways and on northerly aspects.
Emigrant Creek, Sampson Creek, Lake Creek, Salt Creek	(36) Witzel, 705, (R) Rock Land, (706) Medco, (745) Laurelhurst, 840, 842, 850	Black-tailed Deer	Wedgeleaf ceanothus, White oak	Ponderosa pine, Douglas-fir, White fir, Incense-cedar, White oak	Critical Winter Range	Rogue	Deer feed on open southerly aspects; cover is in drainageways and on forested soils with low site class for Douglas-fir
Buckhorn Mountain	(770) Pearsoll, (R) Rock Land, (718) Beekman, (781) Colestine, 371, 372	Black-tailed Deer	Wedgeleaf ceanothus, Canyon live oak, Fremont silktassel, White oak	Douglas-fir, Ponderosa pine, Incense-cedar	Critical Winter Range	Powers, Chetco	Deer feed in open brushfields supported by serpentinitic soils; cover is on adjacent forested soils.
Elk Creek	705, (36) Witzel, (706) Medco, (745) Laurelhurst	Black-tailed Deer	Deerbrush ceanothus	Ponderosa pine, Douglas-fir, Madrone	Critical Winter Range	Dixon	Cover is on forested soils with a low site class for Douglas-fir

*See District URA Wildlife Overlays, page 21, for wildlife management units and deer winter ranges.

State: (0690) (0004)
District: (0543)
Soil Inventory Area: (4600)

Prog. Area: Watershed-Soils
Prep. By: G. Lipscomb
Date: 1 Aug 77

SI-9

DATA SOURCE DESCRIPTION
(DATA BASE MAINTENANCE)

TITLE/DESIGNATION: SIM Soil Description Field Data Form, BLM Form 1731-_____.

FORM: Coded data form

DESCRIPTION: A form used in the Site Inventory Method for recording soil taxonomic unit data for the soils of an inventory area

PREPARATION RESPONSIBILITY: Soil Scientist at Resource Area Headquarters, District Office or State Office

FORMAT: See attached sample input

DATA ENTRY PROCEDURE: To be determined

FREQUENCY OF UPDATE: May not be recurring--if updated, will not be more frequently than each 20-year period. Do not retain historical data

VOLUME OF UPDATE: To be determined

ARCHIVING REQUIREMENTS: Most likely will not be updated--if so, move all data to history file regardless of age, and record new data.

ACCESS LIMITATIONS: Only Soil Scientists--locations to be determined later

SPECIAL EDIT/AUDIT/VALIDATION REQUIREMENTS: To be developed

REMARKS: None

lls-413

BUREAU OF LAND MANAGEMENT
STANDARD UNIT RECORD
FOR
SIM SOIL DESCRIPTION
FIELD DATA FORM

RECORD TYPE S 1
STATE (0690)-(0004)
DISTRICT (0543)
PLANNING UNIT (1075)
SOIL NUMBER (4683)
SOIL STATUS (4690)
ACTION (A=ADD, D=DELETE)

Soil Type (4648)
Date (6630)
Collector (6561)
Classification (4687)
Location (4645)
N. Veg. (3705)
Climate (0694) (4665) (4638)
Parent Material (4643)
Land Form (5123)
Relief (4691)
Drainage (4514)
Salt or Alkali (4567)
Elevation (0431)
Gr. Water (4693)
Stoniness (4655)
Slope (3874)
Moisture (4688)
Aspect (6523)
Root Distirb. (0755)
% Clay* 4605 / 4606 / 531
Erosion (4692)
% Coarse Fragments*
% Coaser than V.F.S.* 4605/ 531
Permeability (4517)

*Control section average

Horizon	Depth	Color		Texture	Structure	Consistence			Reaction	Boundary	ROOTS	PORES	Li
		Dry	Moist			Dry	Moist	Wet					
(4561)	(4547)	(4535)	(4689)	(4526)	(4353)	(4538)			(4642)	(4686)	(4644)	(4631)	(46

Additional notes (6954)

Prog. Area: Watershed-Soils
Prep. By: G. Lipscomb
Date: 1 Aug 77

SI-10

DATA SOURCE DESCRIPTION
(DATA BASE MAINTENANCE)

TITLE/DESIGNATION: Tabulation of Acreages for Soil Inventory Area

FORM: Coded data form

DESCRIPTION: A form on which acreages are entered by BLM and other for administrative areas such as district and resource area.

PREPARATION RESPONSIBILITY: Soil Scientist at Resource Area HQ, DO and SO.

FORMAT: See attached sample input.

DATA ENTRY PROCEDURE: To be determined.

FREQUENCY OF UPDATE: May not require updating--if updated, will not be more frequently than each 20-year period.

VOLUME OF UPDATE: To be determined.

ARCHIVING REQUIREMENTS: Most likely will not be updated--if so, move old data to history file regardless of age and record new data. Retain historical data indefinitely.

ACCESS LIMITATIONS: Only Soil Scientists--locations to be determined later.

SPECIAL EDIT/AUDIT/VALIDATION REQUIREMENTS: To be developed.

REMARKS: None.

1115-4115

State: (0004) (0690)
District: (0543)
Planning Unit: (1075)
Soil Inventory Area: (4600)

TABULATION OF ACREAGES FOR SOIL INVENTORY AREA

Map Symbol (4601)	Total (6520)	Glendale BLM (6594)	Glendale Other (6597)	Galice BLM	Galice Other	Grants Pass BLM	Grants Pass Other	Rogue BLM	Rogue Other	Butte Falls BLM	Butte Falls Other	Klamath BLM	Klamath Other
		AREAS (0418)											
36-R/XY	12,730							130		4,260	2,110	5,950	280
36-R/XYn	1,770									120		1,560	90
36-R/Y	3,770							40		1,250	870	1,240	370
36-705/XY	8,140									1,510	600	2,810	3,220
36-705/XYn	550									430	120		
370-382-371/XW	11,850	4,210	780	880		840	940	1,610	1,570	470	550		
370-382-371/XWn	8,740	5,960	930	490		400	150	480	330				
370-382-371/XY	28,990	3,030	340	2,080	860	10,160	7,320	2,310	2,210	680			
370-382-371/XYn	47,950	9,770	3,820	9,290	1,430	9,970	6,530	3,000	1,580	1,000	1,560		
371-372-370/XY	101,410	28,080	14,990	12,230	2,520	15,240	12,030	5,770	5,070	2,190	3,290		
371-372-370/XYn	86,940	20,750	11,250	18,590	7,440	10,180	7,120	6,610	5,000				
372-371/Y	23,150	9,160	2,890	8,380	1,490	320	250		70	350	240		
372-371/Yn	43,570	13,600	4,170	16,080	2,600	2,190	1,480	2,700	520	80	150		
372-R/Y	23,690	12,230	1,690	5,100	1,530	2,080	680	360	20				
372-R/Yn	2,650			290	250	1,170	940						
380/W	10,870	2,210	800	220	180	2,720	4,300	120	320				
380/Wn	3,710	560	130	1,010	1,750	190	70						
380-382/WX	22,610	6,310	7,350	3,050	960	810	1,950	1,060	1,120				
380-382/WXn	18,670	3,060	2,920	5,960	2,740	1,700	2,100	90	100				
381-380/X	21,680	7,760	5,870	3,830	1,480	750	840	660	380	40	70		
381-380/Xn	7,040	2,860	2,420	1,380	380								
381-380/XY	16,470	6,380	3,710	3,010	1,800	440	1,130						
381-380/XYn	9,360	2,670	2,150	2,100	2,440								
701-R/Y	8,650			1,330	230	1,240	910	4,660	280				
704/W	1,490									80		390	1,020
704-36/XY	5,750									850		1,930	2,970
705-36/X	2,140							40		1,290	680	100	30
705-36/Xn	4,440									280	370	2,450	1,340
705-36/XY	21,380							40		5,290	4,390	7,540	4,120
705-36/XYn	12,760									1,250	1,840	6,280	3,390
705-36/Y	1,840									220		1,110	510

Prog. Area: Watershed-Soils
Prep. By: G. Lipscomb
Date: 1 Aug 77

SI-11

DATA SOURCE DESCRIPTION
(DATA BASE MAINTENANCE)

TITLE/DESIGNATION: Engineering Test Data (SCS Form SCS-Soils-10, Modified for BLM).

FORM: Coded data form.

DESCRIPTION: A form on which engineering lab test data is entered by soil taxonomic unit for an inventory area.

PREPARATION RESPONSIBILITY: Soil Scientist at Resource Area HQ, DO or SO.

FORMAT: See attached sample input.

DATA ENTRY PROCEDURE: To be determined.

FREQUENCY OF UPDATE: May not require updating--if updated, will not be more frequently than each 20-year period.

VOLUME OF UPDATE: To be determined.

ARCHIVING REQUIREMENTS: Most likely will not be updated--if updated, move old data to history file regardless of age, and record new data. Retain historical data indefinitely.

ACCESS LIMITATIONS: Only Soil Scientists--locations to be determined later.

SPECIAL EDIT/AUDIT/VALIDATION REQUIREMENTS: To be developed.

REMARKS: None.

/

SCS-SOILS-10 (MODIFIED for BLM use)
September 1974

SI-11

ENGINEERING TEST DATA

FOR SOIL SAMPLES FROM ONE PEDON

STATE: (0690) (0004) COUNTY: (0546) DISTRICT: (0543) PAGE__OF___
NAME OF SOIL INVENTORY Area: (4600)

CONTROL FIELD

(4648) SOIL SERIES NAME

(4649) TEXTURE

SOIL SURVEY SAMPLE NUMBER (4541) (0690) (0546) (4645)
S YR. ST. LETTER CODE COUNTY NO. PEDON NO. 1

(4541) MONTH SAMPLED

(4541) THIS YEAR

NARRATIVE PEDON LOCATION DESCRIPTION (4645)

BS1
BS2

	HORIZON DESIGNATION (4561)	(4547) DEPTH LIMITS UPPER	LOWER
ROA			
ROB			
ROC			
ROD			
ROE			
RCF			
ROG			

INSTRUCTIONS:

For CONTROL FIELD ....
a. Place the STATE LETTER CODE in first 2 spaces.
b. Place the COUNTY NO. in next 3 spaces.
c. Follow with a single digit consecutive number for each data sheet prepared for this county. (If more than 9 data sheets prepared, use a consecutive letter for remaining sheets.)
2. Place "X" in METRIC CHECK if DEPTH LIMITS – cm.
3. Use capital letters for all alphabetic entries.
4. For ENG. LAB. IDENT. - Enter codes on line R21.
LAB. CODES:
T – B.P.R. Lab.
N – St. Hwy. Lab.
S – State University
M – SCS Mechanics Lab.

	(4542) MAX. DRY DENSITY lb/ft³ (5311)	(4543) OPT. MOIST. Pct (5311)	(4544) PARTICLE DENSITY gr/cc (5311)	(4571) LIQUID LIMIT (6311)	(4564) PLASTIC INDEX (5311)	E	5311) (4522) CLASSIFICATION AASHO Grp Class Index	(4523) (5311) UNIFIED Primary Class	Alternate Class	3" ROCK DISCARD Pct	PASSING 3-in. SIEVE Pct	PASSING 2-in. SIEVE Pct
R21						A						
R22						A						
R23						A						
R24						A						
R25						A						
R26						A						
R27						A						

REQUIRED ENTRY
The 3-inch sieve entry is required for each layer reported.

MECHANICAL ANALYSIS* 4605/4606/5311

	PERCENTAGE PASSING SIEVE 1½in.	1in.	3/4in.	3/8in.	NO.4	NO.10	NO.40	NO.60	NO.200	PERCENT SMALLER THAN .05mm	.02mm	.005mm	.002mm	.001mm
R31														
R32														
R33														
R34														
R35														
R36														
R37														

CODES FOR CALIFORNIA BEARING RATIO

U – Undisturbed core samples
V – Unsoaked, remolded samples
S – In-situ tests

CODES FOR KINDS OF VOLUME-CHANGE DATA

A – Shrinkage limit
B – Shrinkage ratio
C – Swell percentages
D – Shrink percentages (includes linear shrinkage)
E – COLE X 100
F – Swell with C.B.R.

* If trace amounts are detected, enter "TR" in the data field.
If not analyzed but known to be zero, enter "0*" in the data field.
If one or more M. A. fractions not analyzed, enter "–" in the data field.

** No CODE is needed for soaked, remolded samples.

REMARKS: __________

Any Engineering Test Data not provided for on the form .... Attach a summary of the data, the units of measure, and the laboratory method used and send to The DS & R Unit, Hyattsville, MD 20782, along with a copy of this form.

NSH Notice 13 - 6/29/76

WS-418

Prog. Area: Watershed-Soils
Prep. By: G. Lipscomb
Date: 1 Aug 77

SI-12

DATA SOURCE DESCRIPTION
(DATA BASE MAINTENANCE)

TITLE/DESIGNATION: Soil Interpretations Record (SCS-SOILS-5, Modified for BLM Use).

FORM: Coded data form.

DESCRIPTION: A form for recording interpretive data for soil taxonomic units within an inventory area.

PREPARATION RESPONSIBILITY: Soil Scientists at Resource Area HQ, DO, or SO.

FORMAT: See attached sample input.

DATA ENTRY PROCEDURE: To be determined.

FREQUENCY OF UPDATE: May not require updating--if updated, will not be more frequently than each 20-year period.

VOLUME OF UPDATE: To be determined.

ARCHIVING REQUIREMENTS: Most likely will not be updated--if updated, move old data to history file regardless of age, and record new data. Retain historical data indefinitely.

ACCESS LIMITATIONS: Only Soil Scientists--locations to be determined later.

SPECIAL EDIT/AUDIT/VALIDATION REQUIREMENTS: To be developed.

REMARKS: None.

115-419

(MODIFIED FOR BLM USE)

(1)

U.S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

SOIL INTERPRETATIONS RECORD

SI-12

NAME OF SOIL INVENTORY AREA (4600)
TAXONOMIC SOIL UNIT (4683)
SOIL NAME (4648)
STATE (0004) (0690) DISTRICT: 0543 AUTHOR(S) DATE (4630)

CLASSIFICATION AND BRIEF SOIL DESCRIPTION

CLASS DESCR	081	(3705)

ESTIMATED SOIL PROPERTIES

		DEPTH (IN)	USDA TEXTURE	UNIFIED	AASHO	FRACT. >3 IN. (PCT)	PERCENT OF MATERIAL LESS THAN 3 IN. PASSING SIEVE 4	10	40	200	LIQUID LIMIT
PROP	041	(4547)	(4520) + (5311)	(5311) + (4523)	(4522) (5311)		←	(4605) (4606) (5311)	→		(4571) (5311)

		DEPTH (IN)	CLAY (PCT OF <2MM)	MOIST BULK DENSITY (G/CM3)	PERMEABILITY CLASS	AVAILABLE WATER CAPACITY (IN/IN)	SOIL REACTION (PH)	SALINITY (MMHOS/CM)	SHRINK-SWELL POTENTIAL	EROSION FACTORS K	T	WIND EROD. GROUP	ORGANIC MATTER (PCT)	CORROSIVITY STEEL	CONCRETE
PROP	051	(4547) SAME DEPTH AS ABOVE	(4605) (4606) (5311)	(4544) (5311)	(4517) (5311)	(4533) (5311)	(4672) (5311)		(4635) (5311)				(4612) (5311)	(4540) (5311)	(45 (53

(4569)

	FLOODING FREQUENCY	DURATION	MONTHS	HIGH WATER TABLE DEPTH CLASS	CEMENTED PAN DEPTH (IN)	BEDROCK DEPTH (IN)	HYD GRP	POTENT. FROST ACT.
PROP	(4557)			(4548)	(4546)	(4546)		(45

SANITARY FACILITIES

FOOTNOTES	
(4573) SEPTIC TANK ABSORPTION FIELDS	(4572)
SEWAGE LAGOONS	↓
SANITARY LANDFILL (TRENCH)	↓
CHAINING	VEGETATION MANIPULATION (4657)
SEEDING	(4657)
RANGELAND DRILL	(4657)
RANGELAND PLOW	(4657)

CONSTRUCTION MATERIAL

FOOTNOTES	
(4573) ROADFILL	(4657)
SAND and Gravel (4573)	(4657)
TOP SOIL (4573)	(4657)

BUILDING SITE DEVELOPMENT

FOOTNOTES	
4573 SHALLOW EXCAVATIONS	(4572)
BUILDING SITES (4573)	(4572)
LANDSCAPE PLANTING	(4572)
ROAD LOCATION (4573)	(4572)
LAWNS AND FAIRWAYS (4573)	(4572)

WATER MANAGEMENT

FOOTNOTES	
(4573) POND LOCATION	(4657)
PONDS & EMBANKMENTS (4573)	(4657)
WATERSPREADING CONSTRUCTION (4573)	(4657)
WATERSPREADING IRRIGABILITY (4573)	(4657)
(4573) IRRIGATION	(4657)
TERRACING (4573)	(4657)
CONTOUR (4573) FURROWING	
RIPPING (4573)	(4657)
PITTING 4573	(4657)
TRENCHING 4573	(4657)

FARMING

Dryland 4573 FARMING	(4657)

10S-4/30

UNIT NAME
UNIT MODIFIER

RECREATIONAL DEVELOPMENT

				FOOTNOTE				FOOTNOTE
CAMPS		(4573) CAMP AREAS		(4572)			(4573) PLAYGROUNDS	(4572)
PICNIC		(4573 PICNIC AREAS		(4572)	PATHS		4573 PATHS AND TRAILS	(4572)

WOODLAND SUITABILITY

	FOOTNOTE CLASS-DETERMINING PHASE	ORD SYM	EROSION HAZARD	EQUIP LIMIT	SEEDLING MORTAL.	WINDTH. HAZARD	PLANT COMPET.	POTENTIAL PRODUCTIVITY COMMON TREES	SITE INDEX	TREES TO PLANT
WOODS										

	CLASS-DETERMINING PHASE	GRAIN & SEED	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	WETLAND PLANTS	SHALLOW WATER	OPENLAND WILDLIFE	WOODLAND WILDLIFE	WETLAND WILDLIFE	[illegible]
WILDLF													

	COMMON PLANT NAME	
PHASE		

(4534) AVERAGE

VS-420.1

Prog. Area: Watershed-Soils
Prep. By: G. Lipscomb
Date: 1 Aug 77

SI-13

DATA SOURCE DESCRIPTION
(DATA BASE MAINTENANCE)

TITLE/DESIGNATION: Soil Inventory Field Map.

FORM: Field map.

DESCRIPTION: A map at 7-1/2 or 15 minute quad scale containing boundaries of soil mapping units and a legend with descriptions for each soil unit within an inventory area.

PREPARATION RESPONSIBILITY: Soil Scientist at Resource Area HQ, DO, or SO.

FORMAT: See attached sample input.

DATA ENTRY PROCEDURE: To be determined.

FREQUENCY OF UPDATE: May not require updating--if updated, will not be more frequently than each 20-year period.

VOLUME OF UPDATE: To be determined.

ARCHIVING REQUIREMENTS: Most likely will not be updated--if updated, move old data to history file regardless of age, and record new data. Retain historical data indefinitely.

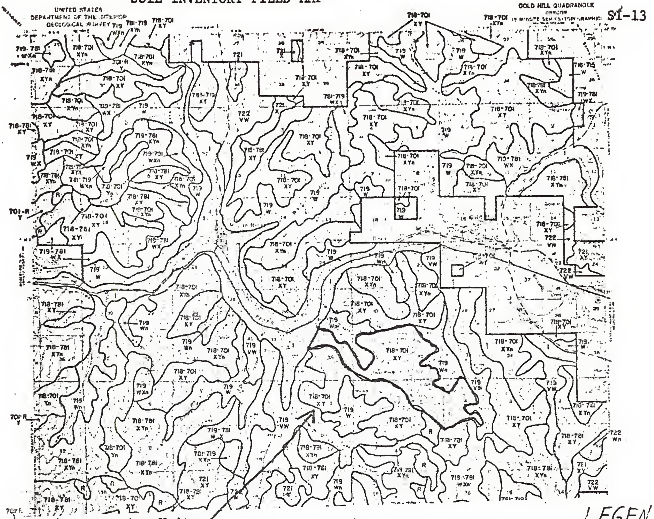
ACCESS LIMITATIONS: Only Soil Scientists--locations to be determined later.

SPECIAL EDIT/AUDIT/VALIDATION REQUIREMENTS: To be developed.

REMARKS: None.

SOIL INVENTORY FIELD MAP

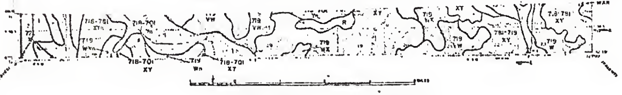
SI-13



Mapping Units: **LEGEND**

718-701/XY 55,360 acres. Slopes dominantly are southerly and about 70 percent have gradients of 35 to 60 percent and 30 percent have gradients of 60 to 85+ percent. This unit contains about 75 percent of moderately deep, very gravelly, loamy (718) Beekman soils and 25 percent of shallow 701 soils. The 701 soils occupy the steeper slopes and ridges.

Inclusions of moderately deep, fine-loamy (781) Colestine soils are mixed with the (718) Beekman soils: and of (R) rock land and unclassified, dark colored, very gravelly, loamy, shallow soils are mixed with the 701 soils. Adjacent to the more moist areas, these soils merge with the loamy, very gravelly soils of the 370, 371 and 372 series.



U.S. DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
OREGON (0004)(0690)
MEDFORD DISTRICT(0543)

Name of Soil Inventory Area;
(4600)

WS-422

Prog. Area: Watershed-Soils
Prep. By: G. Lipscomb
Date: 1 Aug 77

SI-14

DATA SOURCE DESCRIPTION
(DATA BASE MAINTENANCE)

TITLE/DESIGNATION: General Soil Field Map

FORM: Field map.

DESCRIPTION: A small scale map (1:250,000 or 1:500,000) containing boundaries of soil associations and a legend for same within an inventory area.

PREPARATION RESPONSIBILITY: Soil Scientist at Resource Area HQ, DO, or SO.

FORMAT: See attached sample input.

DATA ENTRY PROCEDURE: To be determined.

FREQUENCY OF UPDATE: May not require updating--if updated, will not be more frequently than each 20-year period.

VOLUME OF UPDATE: To be determined.

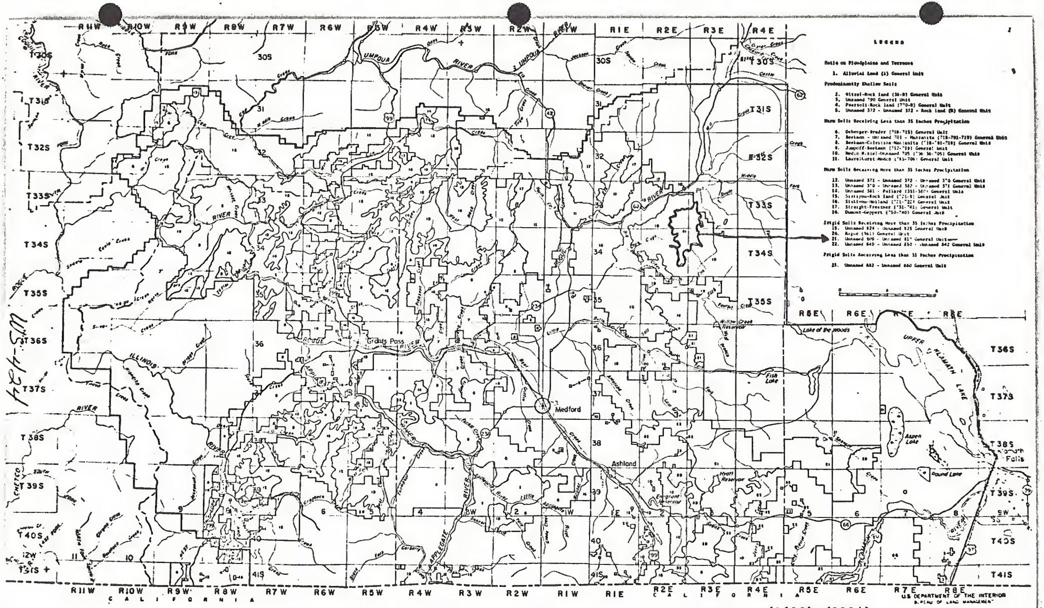
ARCHIVING REQUIREMENTS: Most likely will not be updated--if updated, move old data to history file regardless of age, and record new data. Retain historical data indefinitely.

ACCESS LIMITATIONS: Only Soil Scientists--locations to be determined later.

SPECIAL EDIT/AUDIT/VALIDATION REQUIREMENTS: To be developed.

REMARKS: None.

115-423


LEGEND
Soils on Floodplains and Terraces
1. Alluvial Land (1) General Unit
Predominantly Shallow Soils
2. Witzel-Rock land (36-R) General Unit
3. Unnamed 790 General Unit
4. Pearsoll-Rock land (770-R) General Unit
5. Unnamed 372 - Unnamed 372 - Rock land (R) General Unit
Warm Soils Receiving Less than 35 Inches Precipitation
6. Debenger-Brader (710-715) General Unit
7. Beekman - Unnamed 701 - Manzanita (718-701-719) General Unit
8. Beekman-Colestine-Manzanita (718-701-710) General Unit
9. Jumpoff-Beekman (712-718) General Unit
10. Medco-Witzel-Unnamed 705 (706-36-705) General Unit
11. Laurelhurst-Medco (785-706) General Unit
Warm Soils Receiving More than 35 Inches Precipitation
12. Unnamed 371 - Unnamed 372 - Unnamed 370 General Unit
13. Unnamed 370 - Unnamed 382 - Unnamed 371 General Unit
14. Unnamed 361 - Pollard (351-380) General Unit
15. Siskiyou-Rock land (721-R) General Unit
16. Siskiyou-Holland (721-722) General Unit
17. Straight-Freezner (731-741) General Unit
18. Dumont-Geppert (750-760) General Unit
Frigid Soils Receiving More than 35 Inches Precipitation
19. Unnamed 824 - Unnamed 825 General Unit
20. Rogue (561) General Unit
21. Unnamed 809 - Unnamed 81? General Unit
22. Unnamed 840 - Unnamed 850 - Unnamed 842 General Unit
Frigid Soils Receiving Less than 35 Inches Precipitation
23. Unnamed 882 - Unnamed 880 General Unit
R11W R10W R9W R8W R7W R6W R5W R4W R3W R2W R1W R1E R2E R3E R4E R5E R6E R7E R8E
T30S T31S T32S T33S T34S T35S T36S T37S T38S T39S T40S T41S
UMPQUA RIVER
ROGUE RIVER
ILLINOIS RIVER
APPLEGATE RIVER
UPPER KLAMATH LAKE
Lake of the Woods
Fish Lake
Aspen Lake
Pound Lake
Hyatt Reservoir
Emigrant Reservoir
Willow Creek Reservoir
Grants Pass
Medford
Ashland
Klamath Falls
CALIFORNIA
443-SM

U.S. DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

GENERAL SOIL MAP

1975

State: (0690) (0004)
District: (0543)
Name of Soil Inventory Area: (4600)

MEDFORD DISTRICT
OREGON

Prog. Area: Watershed-Soils
Prep. By: G. Lipscomb
Date: 2 Aug 77

SI-15

DATA SOURCE DESCRIPTION
(DATA BASE MAINTENANCE)

TITLE/DESIGNATION: Erosion Susceptibility Map

FORM: Field map.

DESCRIPTION: A map containing boundaries of erosion susceptibility classes together with classifications for permafrost and mantle stability problem areas within a planning area.

PREPARATION RESPONSIBILITY: Soil Scientists at Resource Area HQ, DO, or SO.

FORMAT: See attached sample input.

DATA ENTRY PROCEDURE: To be determined.

FREQUENCY OF UPDATE: May not require updating--if updated, will not be more frequently than each 20-year period.

VOLUME OF UPDATE: To be determined.

ARCHIVING REQUIREMENTS: Most likely will not be updated--if updated, move old data to history file regardless of age, and record new data. Retain historical data indefinitely.

ACCESS LIMITATIONS: Only Soil Scientists--locations to be determined later.

SPECIAL EDIT/AUDIT/VALIDATION REQUIREMENTS: To be developed.

REMARKS: None.

115-4125

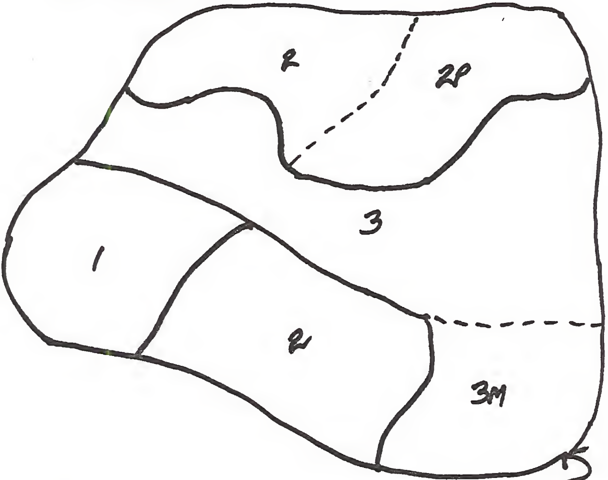
EROSION SUSCEPTIBILITY MAP

STATE (0004)(0690)

DATE (7308)

DISTRICT (0543)

P.U. (1075)



LEGEND

1 - Slight erosion susceptibility
2 - Moderate erosion susceptibility
3 - Severe erosion susceptibility
P - Permafrost area
M - Mantle stability problem area

Boundary of Planning Unit (7501)

115-426

Prog. Area: Watershed-Soils
Prep. By: G. Lipscomb
Date: 2 Aug 77

SI-16

DATA SOURCE DESCRIPTION
(DATA BASE MAINTENANCE)

TITLE/DESIGNATION: Fragile Area Map

FORM: Field map.

DESCRIPTION: A map containing boundaries of identified fragile areas (with legend) for a planning area.

PREPARATION RESPONSIBILITY: Soil Scientist at Resource Area HQ, DO, or SO.

FORMAT: See attached sample input.

DATA ENTRY PROCEDURE: To be determined.

FREQUENCY OF UPDATE: May not require updating--if updated, will not be more frequently than each 20-year period.

VOLUME OF UPDATE: To be determined.

ARCHIVING REQUIREMENTS: Most likely will not be updated--if updated, move old data to history file regardless of age, and record new data. Retain historical data indefinitely.

ACCESS LIMITATIONS: Only Soil Scientists--locations to be determined.

SPECIAL EDIT/AUDIT/VALIDATION REQUIREMENTS: To be developed.

REMARKS: None.

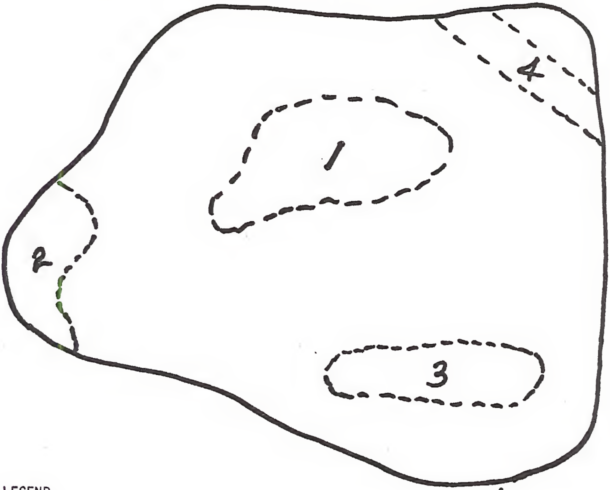
FRAGILE AREA MAP

STATE (0004) (0690)

DATE (7308)

DISTRICT (0543)

P.U. (1075)



LEGEND

1 - Landslide hazard area in Tyee sandstone
2 - Shallow soil area
3 - Steep south exposure
4 - Fault zone

US-428

Prog. Area: Watershed - Soils
Prep. By: H. Lipscomb
Date: 12 Aug. 77

SI-17

DATA SOURCE DESCRIPTION
(INITIAL DATA BASE GENERATION)

TITLE OF SOURCE: Soil Interpretations Record, SCS

FORM: Tape copy of disk file

DESCRIPTION: A data base containing interpretations on soil uses for identified and classified soil series and phases.

CUSTODIAN: AGENCY:	PERSON:	PHONE:
Soil Conservation Service	Harvey Terpstra	FTS 865-8177

LOCATION: SCS Statistics Laboratory
Ames, Iowa

DATA FORMAT: A legible copy of the format is not yet available.

OVERALL DATA VALIDITY: Data has been compiled for those soils inventoried and correlated by the Soil Conservation Service. Interpretation for cropland data elements would not be required for BLM data base.

OVERALL DATA CURRENCY: Data would be current for all correlated soils and valid for BLM needs (for those soil pedons of interest to BLM).

ACCESS/SECURITY LIMITATIONS: Not yet determined -- will require future contacts with the SCS.

ESTIMATED VOLUME: Unknown at present time -- will require followup with SCS

REMARKS: System is still under development by SCS in 1977.
This recommended source is based on the assumption that BLM's data base will include soil interpretive data rather than using the SCS system for storage, and retrieval of BLM soils data.

115-429

BLANK

BLANK

BLANK

BLANK

BLANK

BLANK

BLANK

BLANK

BLANK

Prog. Area: Watershed - Soils
Prep. By: G. Lipscomb
Date: 12 Aug. 77

DATA SOURCE DESCRIPTION (INITIAL DATA BASE GENERATION)

SI-18

TITLE OF SOURCE: Pedon Data System, SCS

FORM: Tape copy of disk file

DESCRIPTION: Consists of a description for each horizon of a soil pedon, soil laboratory data, and engineering data.

CUSTODIAN: AGENCY:	PERSON:	PHONE:
Soil Conservation Service	Clayton Miller	202-447-7705

LOCATION:
Unknown

DATA FORMAT:
Unknown at this time -- to be determined.

OVERALL DATA VALIDITY:
Data has been compiled for those soils inventoried and correlated by the Soil Conservation Service. All data for pedons of interest to BLM would be valid.

OVERALL DATA CURRENCY: Data would be current for all correlated soil pedons and valid for BLM needs (for those pedons of interest to BLM).

ACCESS/SECURITY LIMITATIONS:
Not yet determined -- will require future contacts with the SCS.

ESTIMATED VOLUME: Unknown at the present time -- will require followup with SCS.

REMARKS: System is still under development by SCS in 1977.
This recommended source is based on the assumption that BLM's data base will include soil pedon data rather than using the SCS system for storage and retrieval of BLM soils data.

WS-439

SI-19

Prog. Area: Watershed-Soils
Prep. By: G. Lipscomb
Date: 22 Aug. 77

DATA SOURCE DESCRIPTION
(DATA BASE MAINTENANCE)

TITLE/DESIGNATION: Soil Inventory Narrative

FORM: Narrative

DESCRIPTION: An inventory narrative which describes the attributes of soil mapping units, taxonomic units, and associations.

PREPARATION RESPONSIBILITY: Soil Scientist at RAH or DO

FORMAT: See attached sample input

DATA ENTRY PROCEDURE: To be determined

FREQUENCY OF UPDATE: May not be recurring--if updated,, will not be more frequently than each 20 year period.

VOLUME OF UPDATE: To be determined

ARCHIVING REQUIREMENTS: Most likely will not require updating-- if so, discard old narrative and record new.

ACCESS LIMITATIONS: Only soil scientists may input-- locations to be determined later.

SPECIAL EDIT/AUDIT/VALIDATION REQUIREMENTS: To be developed

REMARKS: None

115-440

SOIL INVENTORY NARRATIVE

State: {0690} Date: {8518}
District: {0543}
Name, Soil Inventory Area: {4600}

Mapping Units:

806-R/VW 1,840 acres. Slopes dominantly are southerly and about cent of the area has gradients of 0 to 10 percent and 30 percent has gradients of 10 to 35 percent. This unit contains about 80 percent of the shallow 806 soils and 20 percent of {R} rock land.

Inclusions consist of the moderately deep 809 soils and what poorly-drained unclassified soils in drainageways.

806-R/X 1,730 acres. Slopes dominantly are southerly and have gradients of 35 to 60 percent. This unit contains about 75 percent of shallow 806 soils and 25 percent of {R} rock land.

Inclusions consist of the moderately deep 809 soils.
(4549), (4550), (4566), (4646), (4668)

WS-441

Prog. Area: Watershed-Soils
Prep. By: G. Lipscomb
Date: 22 Aug. 77

SI-20

DATA SOURCE DESCRIPTION
(DATA BASE MAINTENANCE)

TITLE/DESIGNATION: Erosion Susceptibility Narrative

FORM: Narrative

DESCRIPTION: A URA Step 2 narrative describing the erosion susceptibility of the soils within a planning area

PREPARATION RESPONSIBILITY:

Soil Scientist or Planner at RAH or DO.

FORMAT:

See attached sample input

DATA ENTRY PROCEDURE:

To be determined

FREQUENCY OF UPDATE:

May not require updating-- if updated, will not be more frequently than each 20-year period.

VOLUME OF UPDATE:

To be determined

ARCHIVING REQUIREMENTS: Most likely will not be updated-- if updated, discard old data and record new.

ACCESS LIMITATIONS: Only soil scientists may input-- locations to be determined later.

SPECIAL EDIT/AUDIT/VALIDATION REQUIREMENTS: To be developed.

REMARKS: None

115-442

EROSION SUSCEPTIBILITY NARRATIVE

State: {0004} {0690}　　　Date: (8518)
District: {0543}
Planning Unit: No Name (1075)

Erosion Susceptibility is . . . .
(4679)

Permafrost is found . . . .
(4679)

Mantle stability problems consist of . . . .
(4679)

Prog. Area: Watershed-Soils
Prep. By: G. Lipscomb
Date: 22 Aug. 77

SI-21

DATA SOURCE DESCRIPTION
(DATA BASE MAINTENANCE)

TITLE/DESIGNATION: Fragile Area Narrative

FORM: Narrative

DESCRIPTION: A URA Step 2 narrative describing fragile areas for a planning area.

PREPARATION RESPONSIBILITY: Soil Scientist at RAHs, DOs, and SOs.

FORMAT: See attached sample input

DATA ENTRY PROCEDURE: To be determined.

FREQUENCY OF UPDATE: May not be recurring - if updated, will not be more frequently than each 20-year period.

VOLUME OF UPDATE To be determined.

ARCHIVING REQUIREMENTS: Most likely will not be updated-- if updated, discard old data and record new.

ACCESS LIMITATIONS: Only soil scientists may input-- locations to be determined later.

SPECIAL EDIT/AUDIT/VALIDATION REQUIREMENTS: To be developed.

REMARKS:

None

FRAGILE AREA NARRATIVE

State: {0004} {0690} Date: (8518)
District: {0543}
Planning Unit: {1075}

A severe landslide area exists . . . .
(4682)

The shallow soils on the west side . . . .
(4682)

115-445

Prog. Area: Watershed-V/C
Prep. By: G. Lipscomb
Date: 2 Aug 77

VI-1

DATA SOURCE DESCRIPTION
(DATA BASE MAINTENANCE)

TITLE/DESIGNATION: Watershed Conservation and Development Field Data; BLM Form 7330-12

FORM: Coded Data Form

DESCRIPTION: A form for recording watershed area, vegetal subtype, and transect data in the WC&D inventory.

PREPARATION RESPONSIBILITY: Watershed Specialist at Resource Area Headquarters or District Office

FORMAT: See attached sample input

DATA ENTRY PROCEDURE: To be determined

FREQUENCY OF UPDATE: No update expected for this input form (see remarks)

VOLUME OF UPDATE: None

ARCHIVING REQUIREMENTS: Upon updating with VI- 2 (SIM Inventory), move old data to history file regardless of age. Retain historical data indefinitely.

ACCESS LIMITATIONS: To be determined

SPECIAL EDIT/AUDIT/VALIDATION REQUIREMENTS: See current ADP Programs M062, M063 MO 64 and M065.

REMARKS: This input form is used in current ADP System 0008, WC&D, for recording watershed area, vegetal subtype, and transect data. Updating is expected to come from the Site Inventory Method, VI- 2, SIM Transect Data Form.

VI-1
Sheet of

By

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

WATERSHED CONSERVATION AND DEVELOPMENT FIELD DATA
PHASE I

1. Transaction Code (1) ☐ Correction ☐ Delete	2. State (2–3) (0004) (0690) _ _	3. District (4–5) (0543) _ _	4. Watershed Area *(WA)* (6–8) (0691) _ _ _

SECTION I – GENERAL WATERSHED AREA DESCRIPTION (FORMAT B)

5. County (10–12) (0546) _ _ _	6. Sub-basin (13–14) (5304) _ _	7. Total Acres (15–20) (6520) _ _ _ _ _ _	8. Name of Watershed Area (21–40) (0693)

9. Annual precipitation *(inches)* (41–43) (0694) _ _ _	10. Month of peak flow (44–45) (0695) _ _	11. Date of survey *(month and year)* (46–49) (6630) _ _ _ _

12. Is there flood and sediment damage to manmade facilities?
a. Present *(If damages equal more than $100 annually insert Y, if not N)* ☐ (50)
b. Future *(with urban expansion or other development)* Y or N ☐ (51)
13. Does it originate within the Watershed area? Y, N, or Partly ☐ (52)
(If "no" or "partly," what primary areas? ST, DI, WA) (Format D 10–58) _ _,_ _,_ _ _
_ _,_ _,_ _ _ _ _,_ _,_ _ _ _ _,_ _,_ _ _
_ _,_ _,_ _ _ _ _,_ _,_ _ _ _ _,_ _,_ _ _
– *(number of Watershed given)* (53) (4704)
14. What is presently flooded? ☐ Agriculture (54) ☐ Urban (55) ☐ Public (56) ☐ Industrial (57)
15. Is there an opportunity to reduce the damage? Y or N ☐ (58)

(4702)
(4703)
(0732)
(0697)

16. Are there water quality problems? Y or N ___ (59)
17. Does it originate within the Watershed area? Y, N, or P ☐ (60)
(If "no" or "partly," what primary areas? ST, DI, WA) (Format F 10–58) _ _,_ _,_ _ _
_ _,_ _,_ _ _ _ _,_ _,_ _ _ _ _,_ _,_ _ _
_ _,_ _,_ _ _ _ _,_ _,_ _ _ _ _,_ _,_ _ _
– *(number of Watershed given)* (61) (0707)
18. For what use and intensity is it a problem? *(High, Medium, Low)*
☐ Domestic (62) ☐ Livestock (65)
☐ Fish & Wildlife (63) ☐ Recreation (66)
☐ Industrial (64) ☐ (67) _ (Format H 10–29)

19. What is the probable source(s) of the problem?
☐ Chemical treatment (68)
☐ Construction practices (69)
☐ Forage utilization practices (70)
☐ Gully erosion (71)
☐ Mineral exploration (72)
☐ Mineral extraction (73)
☐ Natural situation (74)
☐ Off-road vehicular use (75)
☐ Other recreation (76)
☐ Timber harvesting practices (77)
☐ Public purposes (78)
☐ Private land use (79)
☐ (80) _ (Format J 10–29)

(0705)
(0708)
(0709)
(0710)
(0711)
(0712)
(0713)
(0706)
(4705)
(0735)

SECTION II – VEGETAL SUBTYPE AND WATER YIELD DATA (FORMAT L)

(10–11)	(12–14)	(18–19)	ACRES		(32–33)	WATER MANAGEMENT IMPROVEMENT					
						INCREASED USABLE WATER			TREATMENT CLASS		
			(20–25)	(26–31)		(34–39)	(40–44)	(45–47)	(48)	(49)	(50)
P. U.	VEGETAL SUBTYPE	PRODUCTIVE CAPACITY *(lbs. 100's)*	BLM	OTHER	NUMBER OF TRANSECTS	POTENTIAL ACRES	ACRE FEET	DOLLARS PER AC FT	MANAGE-MENT	CHEMICAL	MECHANICAL
(1075) (a)	(2706) (b)	(0737) (c)	(6594) (d)	(6597) (e)	(3597) (f)	(0740) (g)	(0741) (h)	(0742) (i)	(0744) (j)	(0743) (k)	(0745 (l)
_ _	_ _ _	_ _	_ _ _ _ _ _	_ _ _ _ _ _	_ _	_ _ _ _ _ _	_ _ _ _ _	_ _ _	_	_	_

LLS-447

SECTION III – TRANSECT DATA (FORMAT H)

LINE	TRANSECT IDENTIFICATION				(18–19)	PERCENT OF GROUND COVER					(30–31)	SOIL TEXTURE		(34–35)	SOIL SURFACE FACTOR				TREATMENTS			
																			VEGETAL MANIPULATION			
	(10–11) PLANNING UNIT (1075) (a)	(12–14) VEGETAL SUBTYPE (2706) (b)	(15) EXPOSURE (6523) (c)	(16–17) NUMBER (3508) (d)	PERCENT OF VEGETAL SUBTYPE (0749) (e)	(20–21) VEGE-TATION (0750) (f)	(22–23) LITTER (0751) (g)	(24–25) SMALL ROCK (0752) (h)	(26–27) LARGE ROCK (0753) (i)	(28–29) BARE GROUND (0754) (j)	EFFECTIVE ROOT DEPTH (0755) (k)	(32) ¾"–4" (l)	(33) 4"+ (m)	PERCENT OF SLOPE (3874) (n)	(36–37) PRESENT (o)	(38–39) WITHOUT MANAGEMENT CHANGE (p)	(40–41) LAND USE MANAGEMENT CHANGE (q)	(42–43) WITH ADDITIONAL TREATMENTS (r)	(44) CHEM-ICAL (s)	(45) MECHAN-ICAL (t)	(46) WATERSHED TILLAGE (u)	(47) WATER CONTROL (v)
1	— —	— — —	—	— —	— — —	— —	— —	— —	— —	— —	— —	| (4709)	| (4710)	— —	(4712) — —	(0757) — —	(0758) — —	(0759) — —	------ —	---(0760)--- —	------ —	----- —
2																						
3																						
4																						
5																						
6																						
7																						
8																						
9																						
10																						
11																						
12																						
13																						
14																						
15																						
16																						

115-448

Prog. Area: Watershed-V/C
Prep. By: G. Lipscomb
Date: 2 Aug 77

VI-2

DATA SOURCE DESCRIPTION
(DATA BASE MAINTENANCE)

TITLE/DESIGNATION: SIM Transect Data Form, BLM Form 1731-___

FORM: Coded Data Form

DESCRIPTION: A field data form for recording transect data in the SIM inventory.

PREPARATION RESPONSIBILITY: Watershed Specialist in Resource Area Headquarters or District Office

FORMAT: See attached sample input

DATA ENTRY PROCEDURE: to be determined

FREQUENCY OF UPDATE: Once each 10 years

VOLUME OF UPDATE: 75,000 forms per year for the BUreau. A large percentage of these will be submitted at the close of the field season - probably September-October.

ARCHIVING REQUIREMENTS: When updated, move old data to history file regardless of age, a record new data. Maintain historical data indefinitely

ACCESS LIMITATIONS: to be determined

SPECIAL EDIT/AUDIT/VALIDATION REQUIREMENTS: to be developed

REMARKS: Data form VI-2 will replace that from VI-1,,current WC&D System

WS-449

BUREAU OF LAND MANAGEMENT
STANDARD UNIT RECORD
FOR SITE CONTROL DATA
SIM TRANSECT DATA FORM

RECORD TYPE VT-2
STATE (0004) or (0690)
DISTRICT (0543)
PLANNING UNIT (1075)
SITE NO. (3507)
TRANSECT NO. (3508)
ACTION (A-ADD, D-DELETE C-CHANGE).

SECTION I - SITE CONTROL DATA

DATE	RECORDER	VEGETATION SUB-TYPE	SLOPE %	ELEVATION	ASPECT	TRANSECT LENGTH	TRANSECT ACRES
YR MO DAY (6630)	(6546)	(2706)	(3874)	(0431)	(6523)	(3509)	(3524)

PLOT SIZE		AZIMUTH	SOIL NUMBER	AERIAL PHOTO IDENTIFICATION	
WT. EST.	CHARACTER.			FLIGHT LINE NO.	ORTHOPHOTO NAME
.96 4.8 (3510) 1.92 9.6	.01 .02 (3514)	(3515)	(4683)	(5713)	(6540)

COMPARISON AREA IDENTIFICATION					Pct. of SITE	TRANSECT NUMBERS FOR THIS PERCENT
State	Dist.	Twp.	Range	Consec. No.		
(0004)	(0543)	(1695)	(1699)	(3520)	(3516)	(3513)

SECTION II - SPECIES LIST

A.BorP	Symbol	Common Name
(3716)	(3705)	(3711)

SECTION III - SSF

	PLOT NUMBER (3512)									
ITEM (4816)	1	2	3	4	5	6	7	8	9	10
Soil Movement										
Surface Litter										
Surface Rock				(4817)						
Pedestalling										
Flow Patterns										
Rills										
Gullies										
TOTAL (P)										
AVERAGE SSF				(4818)						

SECTION IV - STEP-POINT DATA (200 POINTS)

Layer (3525)	POINT														
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
C3															
C2															
C1						(3526)	and	(3527)(P)							
B															
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
C3															
C2															
C1															
B															
	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45
C3															
C2															
C1															
B															
	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
C3															
C2															
C1															
B															

HIT ENTRIES: Litter - (P-Persistent, N-Nonpersistent), B-(Bare Ground, No Canopy) BC-(Bare Ground, Canopy), G-(Gravel), C-Cobble), S-(Stone), R-(Bedrock), ARTR2-(Species)

115-45c

Layer	POINT														
	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75
C3															
C2															
C1															
B															
	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90
C3															
C2															
C1															
B															
	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105
C3															
C2															
C1															
B															
	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120
C3															
C2															
C1															
B															
	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135
C3															
C2															
C1															
B															
	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150
C3															
C2															
C1															
B															
	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165
C3															
C2															
C1															
B															
	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180
C3															
C2															
C1															
B															
	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195
C3															
C2															
C1															
B															
	196	197	198	199	200										
C3															
C2															
C1															
B															

Prog. Area: Watershed-V/C
Prep. By: G. Lipscomb
Date: 2 Aug 77

VI-3

DATA SOURCE DESCRIPTION
(DATA BASE MAINTENANCE)

TITLE/DESIGNATION: Vegetation Types by Planning Unit

FORM: Coded data form

DESCRIPTION: A form for tabulating vegetation data for a planning area (Step 2 of URA)

PREPARATION RESPONSIBILITY: Planning Specialist, Watershed Specialist or Range Specialis at Resource Area Headquarters or District Office

FORMAT: see attached sample input

DATA ENTRY PROCEDURE: to be determined

FREQUENCY OF UPDATE: Once each 10 years as a new vegetation inventory (SIM) is completed.

VOLUME OF UPDATE: 60 forms per year for the Bureau

ARCHIVING REQUIREMENTS: When updated, discard old data and replace with new data

ACCESS LIMITATIONS: to be determined

SPECIAL EDIT/AUDIT/VALIDATION REQUIREMENTS: to be developed

REMARKS: This input is a requirement of Step 2 for URA

115-452

STATE (0004)(0690)
DISTRICT (0543)

1115-4/63

Vegetation Types by Planning Unit

P.U. Paradise (1075)

Type (2652)	Sub-Types		Acres	Vegetation Cover	Major Species	Percent Comp.	Poisonous and Noxious Weeds	
	Code (2706)	Name (2706)	(6520)	(3824)	(3705)	(2628)	Acres (4819)	Species (2623) (3720)
Grass	012	Mid-Grass (Bunch)	80,000	30%	Agsp BRTE Slhy Other	20 10 60 10		
	014	Tall Grass	10,000	25%	ELC1 BRTE Slhy Other	30 20 20 30		
Perennial Forbs	031	Perennial Forbs	2,000	50%	-CHA1 -BRTE	30 20	1,500 Scattered	AST H[illegible]1
Sage Brush	041	Big Sage Brush	60,000	45%	ARTR BRTE Slhy Other	60 10 20 10		
Pinion-Juniper	093	Pinion-Juniper	90,000	35%	JUOC BRTE FELJ Other	60 20 10 10		
Total	-	-	242,000	-	-	-	1,500	

Prog. Area: Watershed-V/C
Prep. By: G. Lipscomb
Date: 2 Aug 77

DATA SOURCE DESCRIPTION
(DATA BASE MAINTENANCE)

VI-4

TITLE/DESIGNATION: Land Treatments and Management Facilities by Planning Unit

FORM: Coded Data Form

DESCRIPTION: A form for tabulating land treatment and management facilities data for a planning area (step 2 of URA)

PREPARATION RESPONSIBILITY: Planner, Watershed Specialist or Range Specialsit at Resource Area Headquarters or District Office

FORMAT: See attached sample input

DATA ENTRY PROCEDURE: to be determined

FREQUENCY OF UPDATE: Once each 10 years for adding new developments and abandoning old ones

VOLUME OF UPDATE: 60 forms per year for the Bureau

ARCHIVING REQUIREMENTS: When updated, discard old data and record new data

ACCESS LIMITATIONS: to be determined

SPECIAL EDIT/AUDIT/VALIDATION REQUIREMENTS: to be developed

REMARKS: This input is a requirement of Step 2 of URA

LAND TREATMENTS AND MANAGEMENT FACILITIES BY PLANNING UNIT

State (0004) (0690)

Date (7308)

District (0543)

Planning Unit (1075)

1215-46-5

Type of Project	Number	Benefitting Activity	Objective of Project	Unit of Measure	Number of Units
(5463)	(5464)	(5465)	(5466)	(5468)	(5467)

Prog. Area: Watershed-V/C
Prep. By: G. Lipscomb
Date: 11 Aug 77

VI-5

DATA SOURCE DESCRIPTION
(DATA BASE MAINTENANCE)

TITLE/DESIGNATION: Land Treatments and Management Facilities Overlay

FORM: A URA Overlay

DESCRIPTION: An overlay for a base map showing locations of land treatment and management facility projects for a planning area (URA 2).

PREPARATION RESPONSIBILITY: Watershed Specialist, Planner or Range Specialist at Resource Area Headquarters or District Office.

FORMAT: See attached sample input.

DATA ENTRY PROCEDURE: To be determined.

FREQUENCY OF UPDATE: Each 10 years as URA/MFP updates are completed.

VOLUME OF UPDATE: 60 forms per year for all Bureau offices.

ARCHIVING REQUIREMENTS: Upon update, replace old data with new and discard old data.

ACCESS LIMITATIONS: To be determined.

SPECIAL EDIT/AUDIT/VALIDATION REQUIREMENTS: To be developed.

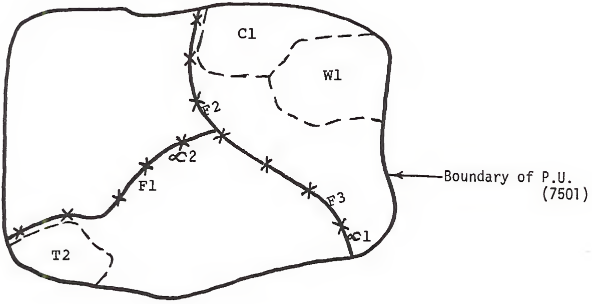
REMARKS: This input is a current requirement of Step 2, URA.

WS-456

LAND TREATMENTS AND MANAGEMENT FACILITIES OVERLAY

State (0004/0690)
District (0543)
P.U. (1075)

Date (8518)



LEGEND:

F1 - Allotment A Boundary Fence

F2 - Allotment B Boundary Fence

F3 - Allotment C Boundary Fence

C1 - Chemical Sagebrush Manipulation
T2 - Mechanical P-J Manipulation by Chaining
W1 - Contour Furrowing in burned sagebrush
∝1 - Comparison Area for Big Sagebrush Site
∝2 - Comparison Area for P-J Site

WS-457

Prog. Area: Watershed-V/C
Prep. By: G. Lipscomb
Date: 2 Aug 77

VI-6

DATA SOURCE DESCRIPTION (DATA BASE MAINTENANCE)

TITLE/DESIGNATION: Watershed Area Field Map

FORM: Field Map with Legend

DESCRIPTION: A field map containing boundaries for watershed areas, vegetation sub-types and transect areas together with annotations and legend (Step 3 of URA)

PREPARATION RESPONSIBILITY: Watershed Specialist at REsource Area Headquarters or District Office

FORMAT: See attached sample input

DATA ENTRY PROCEDURE: To be determined

FREQUENCY OF UPDATE: No update expected for this input (see remarks)

VOLUME OF UPDATE: None

ARCHIVING REQUIREMENTS: Upon updating with SIM map, discard old data and store new map data

ACCESS LIMITATIONS: To be determined

SPECIAL EDIT/AUDIT/VALIDATION REQUIREMENTS: to be developed

REMARKS: This map is proposed for use in planning areas until a SIM inventory is completed. Upon completion of the SIM inventory, the VI-6 input will be returned to archives. This input is currently required in Step 2 of URA

WS-458

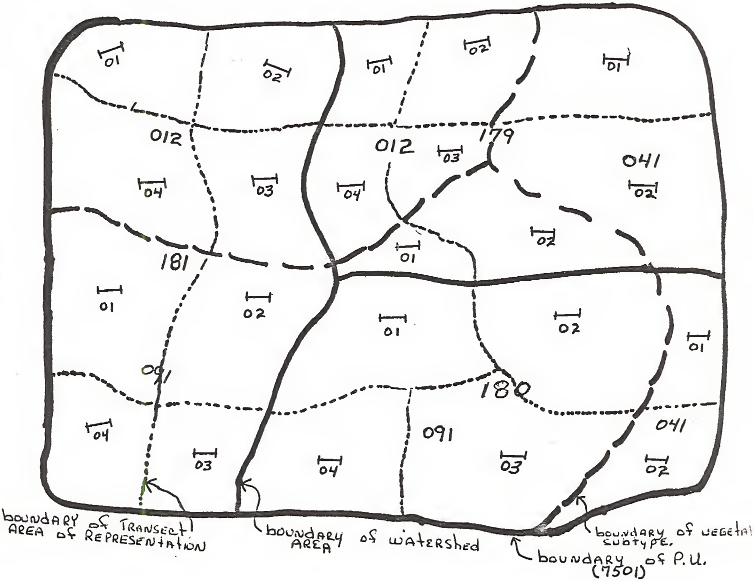
WATERSHED AREA FIELD MAP

State (0004) (0690)

Date (7308)

District (0543)

P. U. (1075)


01
02
01
02
01
012
012
03
179
041
04
03
04
02
02
181
01
01
02
01
02
01
091
180
04
03
04
091
03
041
02
boundary of Transect AREA of REPRESENtation
boundary of watershed AREA
boundary of P.U. (7501)
boundary of vegetal subtype.

[999-999-99 Watershed Area - Vegetal Subtype - Transect Number]

[179-041-01 Brownstone W. A. - Big Sagebrush - Transect No. 1]

WS - 459

VI-7

Prog. Area: Watershed-V/C
Prep. By: G. Lipscomb
Date: 2 Aug 77

DATA SOURCE DESCRIPTION
(DATA BASE MAINTENANCE)

TITLE/DESIGNATION: Vegetal - Soil Factor Overlay

FORM: A URA overlay

DESCRIPTION: An overlay for a base map showing boundaries of vegetal-soil factor classes for a planning area (Step 2 of URA)

PREPARATION RESPONSIBILITY: Watershed Specialist at Resource Area Headquarters or District Office

FORMAT: See Attached sample input

DATA ENTRY PROCEDURE: To be determined

FREQUENCY OF UPDATE: Once each 10 years as a new vegetation inventory (SIM) is completed.

VOLUME OF UPDATE: 60 Overlays per year for the Bureau

ARCHIVING REQUIREMENTS: When updated, discard old overlay and record new overlays

ACCESS LIMITATIONS: To be determined

SPECIAL EDIT/AUDIT/VALIDATION REQUIREMENTS: to be developed

REMARKS: This input is currently required in Step 2 of URA

WS-460

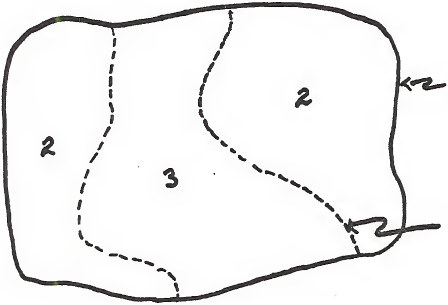
VEGETAL - SOIL FACTOR OVERLAY

State (0004) or (0690)

Date (7308)

District (0543)

P. U. (1075)



Boundary of P. U. (7501)

Boundary of vegetal - soi factor rating class

LEGEND

1. Area with low vegetal-soil factor rating
2. Area with medium vegetal-soil factor rating
3. Area with high vegetal-soil factor rating

115-461

VI-8

Prog. Area: Watershed-V/C
Prep. By: G. Lipscomb
Date: 2 Aug 77

DATA SOURCE DESCRIPTION
(DATA BASE MAINTENANCE)

TITLE/DESIGNATION: Erosion Condition and Trend Overlay

FORM: a URA overlay

DESCRIPTION: An overlay for a base map showing boundaries of current erosion condition classes with annotation of current trend for a planning area (Step 3 of URA)

PREPARATION RESPONSIBILITY: Watershed Specialist or Soil Scientist at Resource Area Headquarters or District Office

FORMAT: See attached sample input

DATA ENTRY PROCEDURE: To be determined

FREQUENCY OF UPDATE: Once each 10 years as a new vegetation inventory (SIM) is completed.

VOLUME OF UPDATE: 60 overlays per year for the Bureau

ARCHIVING REQUIREMENTS: When updated, discard old overlay and record new overlay.

ACCESS LIMITATIONS: To be determined

SPECIAL EDIT/AUDIT/VALIDATION REQUIREMENTS: to be developed

REMARKS: This input is currently required in Step 3, Watershed, of URA

WS-462

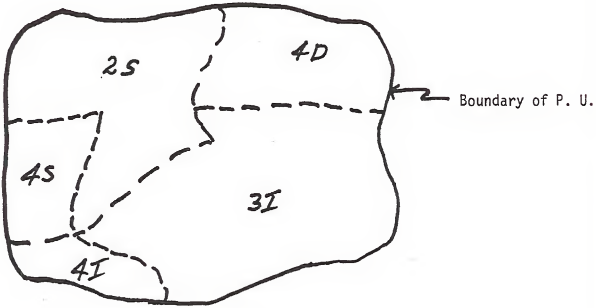
EROSION CONDITION AND TREND OVERLAY

State (0004) (0690)

Date (7308)

District (0543)

P. U. (1075)



LEGEND

2S	Slight erosion condition; static trend
3I	Moderate erosion condition; improving trend
4S	Critical erosion condition; static trend
4D	Critical erosion condition; deteriorating trend
4I	Critical erosion condition; improving trend

WS-463

Prog. Area: Watershed-V/C
Prep. By: G. Lipscomb
Date: 2 Aug 77

VI-9

DATA SOURCE DESCRIPTION (DATA BASE MAINTENANCE)

TITLE/DESIGNATION: Watershed Opportunities Overlay

FORM: a URA overlay

DESCRIPTION: An overlay for a base map showing boundaries of Step 4, Watershed, opportunity areas for a planning area

PREPARATION RESPONSIBILITY: Watershed Specialist at REsource Area Headquarters or District Office

FORMAT: See attached sample input

DATA ENTRY PROCEDURE: to be determined

FREQUENCY OF UPDATE: Once each 10 years as new planning actions occur (MFP updates, activity plan initiation, etc.)

VOLUME OF UPDATE: 60 overlays per year for the Bureau

ARCHIVING REQUIREMENTS: When updated, discard old data and record new overlay.

ACCESS LIMITATIONS: to be determined

SPECIAL EDIT/AUDIT/VALIDATION REQUIREMENTS: to be developed

REMARKS: This input is currently required in Step 4, Watershed, of URA

WS-464

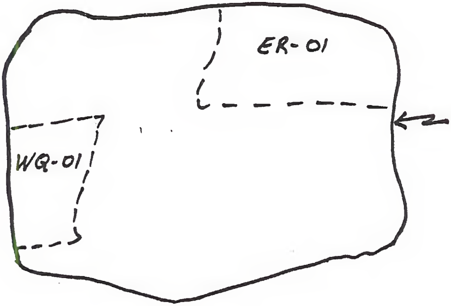
WATERSHED OPPORTUNITIES OVERLAY

State (0004)(0690)

Date (7308)

District (0543)

P. U. (1075)



Boundary of P. U. (7501)

LEGEND

ER-01	Opportunity for erosion reduction (and water quality enhancement)
WQ-o1	Opportunity for water quality enhancement (and erosion reduction)

WS-4165

Prog. Area: Watershed-V/C
Prep. By: G. Lipscomb
Date: 2 Aug 77

VI-10

DATA SOURCE DESCRIPTION
(DATA BASE MAINTENANCE)

TITLE/DESIGNATION: Management and Treatment Opportunity Areas by Planning Unit

FORM: A coded data form

DESCRIPTION: A form for tabulating management and treatment opportunity area data for a planning area (Step 4, Watershed, of URA)

PREPARATION RESPONSIBILITY: Watershed Specialist at Resource Area Headquarters or District Office

FORMAT: See attached sample input

DATA ENTRY PROCEDURE: to be determined

FREQUENCY OF UPDATE: Once each 10 years as new planning actions occur (MFP updates, activity plan initiation, etc.)

VOLUME OF UPDATE: 60 forms per year for the Bureau

ARCHIVING REQUIREMENTS: When updated, discard old data and record new data

ACCESS LIMITATIONS: to be determined

SPECIAL EDIT/AUDIT/VALIDATION REQUIREMENTS: to be developed

REMARKS: This input is currently required in Step 4, Watershed, of URA

WS-466

MANAGEMENT AND TREATMENT OPPORTUNITY AREAS BY PLANNING UNIT

State (0004)(0690)

Date (7308)

District (0543)

P. U. (1075)

Opportunity Area Code (4806)	BLM Acres (6594)	Type of Practices (0760)	Opportunity Size and Potential				
			E.P. (4808) (4809)	E.R. (4810) (4809)	W.Q. (4811) (4809)	W.Y. (4812) (4809)	F/S (4813) (4809)

WS-467

Prog. Area: Watershed-V/C
Prep. By: G. Lipscomb
Date: 24 Aug. 77

VI-11

DATA SOURCE DESCRIPTION
(DATA BASE MAINTENANCE)

TITLE/DESIGNATION: Vegetation Narrative

FORM: Narrative

DESCRIPTION: A URA Step 2 narrative describing the types of vegetation and its characteristics within a planning area

PREPARATION RESPONSIBILITY: Planner; Watershed Specialist; or Range Specialist at RAH or DO

FORMAT:

See attached sample input

DATA ENTRY PROCEDURE: To be determined

FREQUENCY OF UPDATE: Once each 10 years as a new vegetation inventory (SIM) is completed.

VOLUME OF UPDATE:

60 narratives per year for the Bureau.

ARCHIVING REQUIREMENTS: When updated, discard old data and record new

ACCESS LIMITATIONS: To be determined

SPECIAL EDIT/AUDIT/VALIDATION REQUIREMENTS: To be developed

REMARKS:

This input is a requirement of Step 2 for URA.

VEGETATION NARRATIVE

State: {0004} {0690}
District: {0543}
Planning Unit: {1075}

Date: {8518}

Vegetative types are influenced by . . . .
(4786)

Poisonous plants include . . . .
(4786)

Rare plant species include . . . .
(4786)

Prog. Area: Watershed-V/C
Prep. By: G. Lipscomb
Date: 24 Aug. 77

DATA SOURCE DESCRIPTION
(DATA BASE MAINTENANCE)

TITLE/DESIGNATION: Vegetal-Soil Factor Narrative

FORM: Narrative

DESCRIPTION:

A URA Step 2 narrative describing the limiting physical factors by vegetal-soil factor rating class for a planning area.

PREPARATION RESPONSIBILITY:

Watershed Specialist at RAH or DO

FORMAT:

See attached sample format

DATA ENTRY PROCEDURE:

To be determined

FREQUENCY OF UPDATE:

Once each 10 years as a new inventory (SIM) is completed.

VOLUME OF UPDATE:

60 narratives per year for the Bureau.

ARCHIVING REQUIREMENTS: When updated, discard old data and record new.

ACCESS LIMITATIONS: To be determined

SPECIAL EDIT/AUDIT/VALIDATION REQUIREMENTS: To be developed

REMARKS:

This input is currently required in Step 2 of URA.

WS-470

VEGETAL-SOIL FACTOR NARRATIVE

State: {0004} {0690}   Date: {8518}
District: {0543}
Planning Unit: {1075}

High vegetal-soil factor ratings are found in . . . .
. . . .
(4787)

Management implications include . . . .
. . . .
(4787)

Soil moisture is limted on high rated area because . . . .
. . . .
. . . .
(4787)

WS-471

Prog. Area: Watershed-V/C
Prep. By: G. Lipscomb
Date: 24 Aug. 77

VI-13

DATA SOURCE DESCRIPTION
(DATA BASE MAINTENANCE)

TITLE/DESIGNATION: Land Treatments and Management Facilities Narrative

FORM: Narrative

DESCRIPTION: A Step 2 URA Narrative describing existing land treatments and management facilities for a planning area.

PREPARATION RESPONSIBILITY: Watershed Specialist, Planner, or Range Specialist at RAH or DO.

FORMAT:

See attached sample input.

DATA ENTRY PROCEDURE: To be determined.

FREQUENCY OF UPDATE: Each 10 years as URA/MFP updates are completed.

VOLUME OF UPDATE: 60 Narratives per year for the Bureau

ARCHIVING REQUIREMENTS: When updated, discard old narrative and record new.

ACCESS LIMITATIONS: To be determined

SPECIAL EDIT/AUDIT/VALIDATION REQUIREMENTS: To be developed

REMARKS: This input is a current requirement of Step 2, URA.

WS-472

LAND TREATMENTS AND MANAGEMENT FACILITIES NARRATIVE

State: {0004} {0690}
District: {0543}
Planning Unit: {1075}
Date: {8518}

Land treatments are largely . . . .
(4814)

Management facilities consist of . . . .
(4814)

115-473

Prog. Area: Watershed-V/C
Prep. By: G. Lipscomb
Date: 24 Aug. 77

VI-14

DATA SOURCE DESCRIPTION
(DATA BASE MAINTENANCE)

TITLE/DESIGNATION: Erosion Condition and Trend Narrative

FORM: Narrative

DESCRIPTION:

A Step 3 URA narrative describing erosion condition and trend conditions for a planning area.

PREPARATION RESPONSIBILITY: Soil Scientists and Watershed Specialists at RAH or DO

FORMAT:

See attached sample input

DATA ENTRY PROCEDURE: To be determined

FREQUENCY OF UPDATE:

Once each 10 years as a new inventory (SIM) is completed.

VOLUME OF UPDATE: 60 narratives per year for the Bureau

ARCHIVING REQUIREMENTS: When updated, discard old narrative and record new.

ACCESS LIMITATIONS: To be determined.

SPECIAL EDIT/AUDIT/VALIDATION REQUIREMENTS: To be developed

REMARKS: This input is currently required in Step 3, Watershed, of URA.

WS-474

EROSION CONDITION AND TREND NARRATIVE

State: {0004} {0690}   Date: {8518}
District: {0543}
Planning Unit: {1075}

Erosion problems are caused by . . . .
(4805)

Effects on water quality and flood and sediment damages include . . . .
(4805).

115-475

Prog. Area: Waterbed-V/C
Prep. By: G. Lipscomb
Date: 24 Aug. 77

DATA SOURCE DESCRIPTION
(DATA BASE MAINTENANCE)

TITLE/DESIGNATION: Watershed Opportunities Narrative

FORM: Narrative

DESCRIPTION:

A Step 4 URA narrative describing the types of Watershed opportunities for a planning area.

PREPARATION RESPONSIBILITY:

Watershed Specialist at RAH or DO

FORMAT:

See attached sample input

DATA ENTRY PROCEDURE: To be determined

FREQUENCY OF UPDATE:

Each 10 years as URA/MFP updates are completed.

VOLUME OF UPDATE:

60 narratives per year for the Bureau.

ARCHIVING REQUIREMENTS: When updated, discard old narrative and record new.

ACCESS LIMITATIONS: To be determined

SPECIAL EDIT/AUDIT/VALIDATION REQUIREMENTS:

To be developed.

REMARKS:

This input is currently required in Step 4, Watershed, of URA.

2c'S-476

WATERSHED OPPORTUNITIES NARRATIVE

State: {0004} {0690} Date: {8518}
District: {0543}
Planning Unit: {1075}

Opportunities in Area ER-01 include . . . .
(4815)

Area WQ-01 includes opportunities for . . . .
(4815)

WS-477

Prog. Area: Watershed-Air
Prep. By: G. Lipscomb
Date: 3 Aug. 77

AI-1

DATA SOURCE DESCRIPTION
(DATA BASE MAINTENANCE)

TITLE/DESIGNATION: AIR QUALITY SITE IDENTIFICATION FORM

FORM: Coded Data Form

DESCRIPTION: A data form for recording air quality monitoring site information.

PREPARATION RESPONSIBILITY: Air Quality Specialist or Air Resources Specialist at District Office or State Office.

FORMAT: See attached sample input.

DATA ENTRY PROCEDURE: To be determined.

FREQUENCY OF UPDATE: Normally submitted only once for a monitoring site, but may be updated for such things as station moved; elevation of sampler changed; etc.

VOLUME OF UPDATE: 10 forms per year for the Bureau.

ARCHIVING REQUIREMENTS: If updated, move old data to archives, and record new data. Retain historical data indefinitely.

ACCESS LIMITATIONS: To be determined.

SPECIAL EDIT/AUDIT/VALIDATION REQUIREMENTS: To be developed.

REMARKS: None

605-478

Air Quality Site Identification

AI-1

Form Completed By (6561) Date (7308) New ☐ Revised ☐

TO BE COMPLETED BY THE REPORTING AGENCY

(0004)
State

(Name for 4902)
Project

(14 36) City Name (23 characters)

County (Name for 0546)
(37 51) County Name (15 characters)

Longitude (1237)

	Deg.		Min.		Sec.		
W	☐	☐	☐	☐	☐	☐	☐
62	63	64	65	66	67	68	69

Latitude (1236)

	Deg.		Min.		Sec.	
N	☐	☐	☐	☐	☐	☐
70	71	72	73	74	75	76

0	0
60	61

UTM Zone (7515)

☐	☐
60	61

Easting Coord., meters

☐	☐	☐	☐	☐	☐	☐	☐
62	63	64	65	66	67	68	69

Northing Coord., meters

☐	☐	☐	☐	☐	☐	☐
70	71	72	73	74	75	76

(4906)
(18 78) Supporting Agency (61 characters)

Supporting Agency, continued

* * * * * * * *

(14 79) Optional: Comments that will help identify
(6954)
the sampling site (132 characters)

(14 79)

(14 38) Abbreviated Site Address (25 characters)

DO NOT WRITE HERE

(0004) State (0543, 1075) Site (4910)

A	☐	☐	☐	☐	☐	☐	☐	☐	☐
1	2	3	4	5	6	7	8	9	10

Agency ☐☐☐ 11 (4905)
Project ☐☐ 12 13 (4902)

State			Area				Site		
B	☐	☐	☐	☐	☐	☐	☐	☐	☐
1	2	3	4	5	6	7	8	9	10

Agency ☐ 11
Project ☐☐ 12 13

State			Area				Site		
C	☐	☐	☐	☐	☐	☐	☐	☐	☐
1	2	3	4	5	6	7	8	9	10

Agency ☐ 11
Project ☐☐ 12 13
Action ☐ 80

State			Area				Site		
D	☐	☐	☐	☐	☐	☐	☐	☐	☐
1	2	3	4	5	6	7	8	9	10

Agency ☐ 11
Project ☐☐ 12 13
Action ☐ 80

State			Area				Site		
E	☐	☐	☐	☐	☐	☐	☐	☐	☐
1	2	3	4	5	6	7	8	9	10

Agency ☐ 11
Project ☐☐ 12 13
Action ☐ 80

(over)

Air Quality Site Identification Form (Front). (Modified For BLM Use)

WS-479

TO BE COMPLETED BY THE REPORTING AGENCY	DO NOT WRITE HERE
(0934, 0935) (14 54) Sampling Site Address (41 characters)	AI-1 State Area Site F ☐☐☐☐☐☐☐☐☐ 1 2 3 4 5 6 7 8 9 10
Address, continued	Agency F (11) Project 0 1 (12 13)
	County Code ☐☐ (0546) 57 58 59 60
	AQCR Name ☐☐☐ (4959) 61 62 63
	Elevation/Gr ☐☐☐ (4908) 72 73 74
	Elevation/MSL ☐☐☐☐ 75 76 77 78 (0431)

Air Quality Site Identification Form (Back).

WS-480

Prog. Area: Watershed-Air
Prep. By: G. Lipscomb
Date: 3 Aug. 77

AI-2

DATA SOURCE DESCRIPTION
(DATA BASE MAINTENANCE)

TITLE/DESIGNATION: HOURLY AIR QUALITY DATA FORM

FORM: Coded Data Form

DESCRIPTION: A data form for recording less than 24-hour air quality data at a monitoring site.

PREPARATION RESPONSIBILITY: Air Quality Specialist or Air Resources Specialist at District Office or State Office.

FORMAT: See attached sample input.

DATA ENTRY PROCEDURE: To be determined.

FREQUENCY OF UPDATE: Daily (for less than 24-hour monitoring interval).

VOLUME OF UPDATE: 50 forms per day for all Bureau Offices.

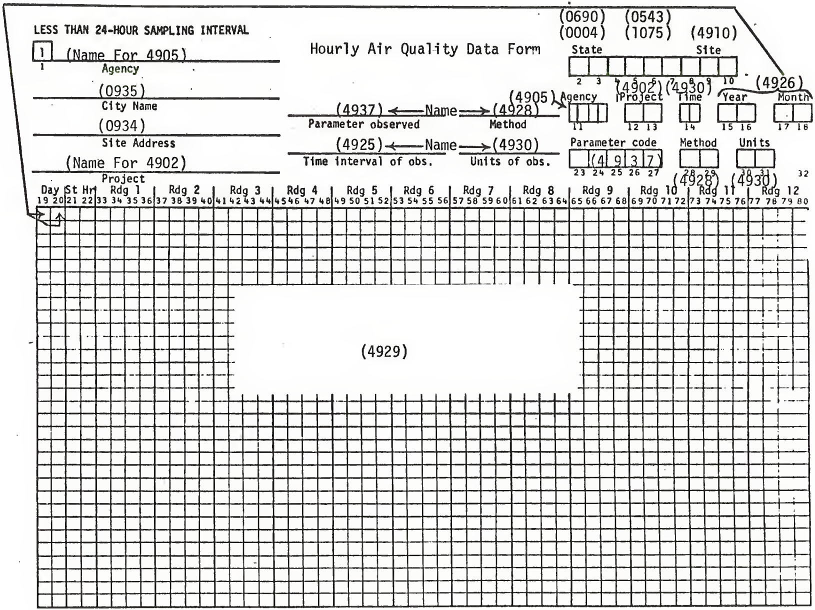
ARCHIVING REQUIREMENTS: Maintain one calendar year's data in system--upon addition of another year's data, make required analysis of past year's data and transfer to history file which is to be maintained for the life of the monitoring station record.

ACCESS LIMITATIONS: To be determined.

SPECIAL EDIT/AUDIT/VALIDATION REQUIREMENTS: To be developed.

REMARKS: None

WS-481



LESS THAN 24-HOUR SAMPLING INTERVAL

☐ 1 (Name For 4905)
1
Agency

(0935)
City Name

(0934)
Site Address

(Name For 4902)
Project

Hourly Air Quality Data Form

(0690) (0543)
(0004) (1075) (4910)
State Site
2 3 4 5 6 7 8 9 10

(4905) Agency 11
(4902) Project 12 13
(4930) Time 14
(4926) Year 15 16 Month 17 18

(4937) ←Name→ (4928)
Parameter observed | Method

(4925) ←Name→ (4930)
Time interval of obs. | Units of obs.

Parameter code 23 24 25 26 27 (4 9 3 7)
Method 28 29 (4928)
Units 30 31 (4930)
32

Day	St Hr	Rdg 1	Rdg 2	Rdg 3	Rdg 4	Rdg 5	Rdg 6	Rdg 7	Rdg 8	Rdg 9	Rdg 10	Rdg 11	Rdg 12
19 20	21 22	33 34 35 36	37 38 39 40	41 42 43 44	45 46 47 48	49 50 51 52	53 54 55 56	57 58 59 60	61 62 63 64	65 66 67 68	69 70 71 72	73 74 75 76	77 78 79 80

(4929)

Hourly Air Quality Data Form. (modified for BLM use)

115-4/82

Prog. Area: Watershed-Air
Prep. By: G. Lipscomb
Date: 3 Aug. 77

AI-3

DATA SOURCE DESCRIPTION
(DATA BASE MAINTENANCE)

TITLE/DESIGNATION: DAILY AIR QUALITY DATA FORM

FORM: Coded Data Form

DESCRIPTION: A data form for recording 24-hour or greater sampling interval air quality data at a monitoring site.

PREPARATION RESPONSIBILITY: Air Quality Specialist or Air Resources Specialist at District Office, State Office, or Resource Area Headquarters.

FORMAT: See attached sample input.

DATA ENTRY PROCEDURE: To be determined.

FREQUENCY OF UPDATE: Monthly (for 24-hour or greater sampling interval)

VOLUME OF UPDATE: 150 forms per month for all Bureau offices

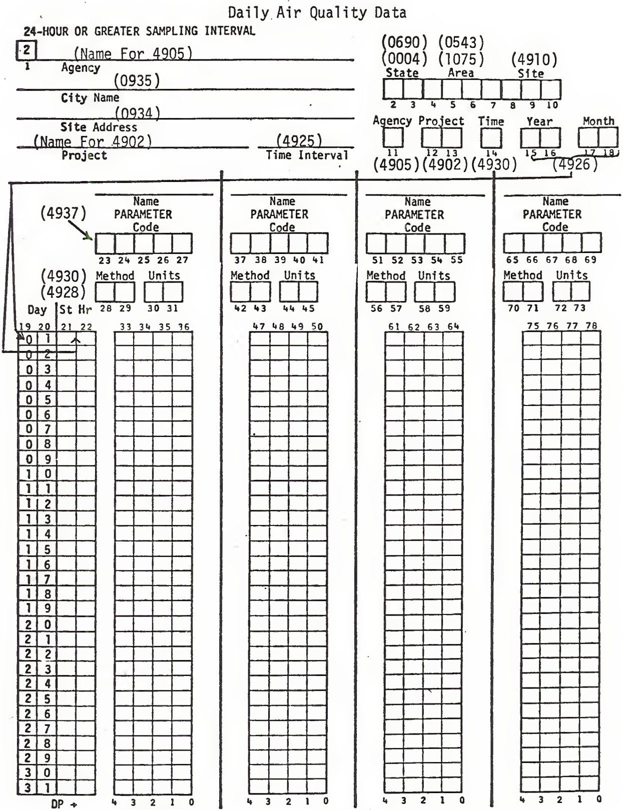
ARCHIVING REQUIREMENTS: Maintain one calendar year's data in system--upon addition of another year's data, make required analyses of previous year's data. and transfer to history file which is to be maintained for the life of the monitoring station record.

ACCESS LIMITATIONS: To be determined.

SPECIAL EDIT/AUDIT/VALIDATION REQUIREMENTS: To be developed.

REMARKS: None

WS-483



Daily Air Quality Data

24-HOUR OR GREATER SAMPLING INTERVAL

2 (Name For 4905)
1 Agency

(0935)
City Name

(0934)
Site Address

(Name For 4902)
Project

(4925)
Time Interval

(0690) (0543)
(0004) (1075) (4910)
State Area Site
2 3 4 5 6 7 8 9 10

Agency Project Time Year Month
11 12 13 14 15 16 17 18
(4905) (4902) (4930) (4926)

	Name PARAMETER Code	Name PARAMETER Code	Name PARAMETER Code	Name PARAMETER Code
(4937)	23 24 25 26 27	37 38 39 40 41	51 52 53 54 55	65 66 67 68 69
(4930) Method / (4928) Units	Method 28 29 Units 30 31	Method 42 43 Units 44 45	Method 56 57 Units 58 59	Method 70 71 Units 72 73

Day 19 20	St Hr 21 22	33 34 35 36	47 48 49 50	61 62 63 64	75 76 77 78
0 1	^				
0 2					
0 3					
0 4					
0 5					
0 6					
0 7					
0 8					
0 9					
1 0					
1 1					
1 2					
1 3					
1 4					
1 5					
1 6					
1 7					
1 8					
1 9					
2 0					
2 1					
2 2					
2 3					
2 4					
2 5					
2 6					
2 7					
2 8					
2 9					
3 0					
3 1					
	DP →	4 3 2 1 0	4 3 2 1 0	4 3 2 1 0	4 3 2 1 0

(4929)

Daily Air Quality Data Form. (modified for BLM use)

105-484

Prog. Area: Watershed-Air
Prep. By: G. Lipscomb
Date: 3 Aug. 77

AI-4

DATA SOURCE DESCRIPTION
(DATA BASE MAINTENANCE)

TITLE/DESIGNATION: CLIMATOLOGICAL STATION DATA FORM

FORM: Coded Data Form

DESCRIPTION: A data form for recording climatic data at climatological data stations.

PREPARATION RESPONSIBILITY: Air Resources Specialist, Meteorologist, or Hydrologist at Resource Area Headquarters, District Office or State Office.

FORMAT: See attached sample input (data elements only--format design not available).

DATA ENTRY PROCEDURE: To be determined.

FREQUENCY OF UPDATE: Daily (for less than 24-hour time interval) and Monthly (for 24-hour or greater time interval).

VOLUME OF UPDATE: 50 forms per day for all Bureau Offices plus 150 forms per month for all Bureau Offices.

ARCHIVING REQUIREMENTS: Maintain one calendar year's data in system--upon addition of another year's data, make required analyses of previous year's data and transfer to history file which is to be maintained for the life of the monitoring station record.

ACCESS LIMITATIONS: To be determined.

SPECIAL EDIT/AUDIT/VALIDATION REQUIREMENTS: To be developed.

REMARKS: None

115 - 4/85

CLIMATOLOGICAL STATION DATA FORM

1. State, Administrative (100-0004) or State, Administrative (100-0690)
2. District, Administrative (100-0543)
3. Name, Climatological Station (143-4914)
4. Number, Climatological Station (181-8515)
5. County, etc. (100-0546)
6. Code, Watershed (145-5304)
7. Latitude (100-1236)
8. Longitude (100-1237)
9. Elevation (100-0431)
10. Agency (100-2576)
11. Parameter, Climatological (100-5377)
12. Value, Climatological Parameter (100-5376)
13. Date, Recorded (100-8518)
14. Time (100-6926)
15. Time Interval For Measurement (143-4925)
16. Method, Measurement (100-5311)
17. Initials, Recorder, Collector (100-6546)

US-486

Prog. Area: Watershed-Air
Prep. By: G. Lipscomb
Date: 3 Aug. 77

AI-5

DATA SOURCE DESCRIPTION
(DATA BASE MAINTENANCE)

TITLE/DESIGNATION: AIR QUALITY STANDARDS

FORM: Coded Data Form

DESCRIPTION: A form for recording established air quality standards for a specific geographic area.

PREPARATION RESPONSIBILITY: Air Quality Specialist or Air Resources Specialist at District Office, State Office, or Service Center.

FORMAT: See attached sample input.

DATA ENTRY PROCEDURE: To be determined.

FREQUENCY OF UPDATE: Annually for National/State standards to each 5 years for local/BLM standards.

VOLUME OF UPDATE: 600 forms per year for all Bureau Offices which may update one or all parameter standards.

ARCHIVING REQUIREMENTS: Upon update, replace old standards data with new data--only for those parameter standards included in new data.

ACCESS LIMITATIONS: To be determined.

SPECIAL EDIT/AUDIT/VALIDATION REQUIREMENTS: To be developed.

REMARKS: None

AIR QUALITY STANDARDS

State (0690) (0004)
District (0543)
P.U. (1075)

Air Basin or Airshed	Agency Establishing Standards	Type of Standard	- Parameter Standards - (4937)					
			P	SO_2	NO_2	CO	HC	ETC.
(1) (4959/4978)	(2) (5312)	(3) (4966)	(4) ←	(5)	(6)	(7) (4929) (3658)	(8)	→

11/5 - 7/88

AI-6

Prog. Area: Watershed-Air
Prep. By: G. Lipscomb
Date: 19 Aug. 77

DATA SOURCE DESCRIPTION
(DATA BASE MAINTENANCE)

TITLE/DESIGNATION: AIR RESOURCES INVENTORY MAP

FORM: A field map

DESCRIPTION: A map containing air resources data for an inventory area.

PREPARATION RESPONSIBILITY: Air Resources Specialist or Meterologist at Resource Area Headquarters or District Office.

FORMAT: See attached sample input.

DATA ENTRY PROCEDURE: To be determined.

FREQUENCY OF UPDATE: Each 10 years as new air resources inventory data is compiled.

VOLUME OF UPDATE: 60 maps per year inclusive for all Bureau offices.

ARCHIVING REQUIREMENTS: When updated, move old data to archives and record new map data.

ACCESS LIMITATIONS: To be determined

SPECIAL EDIT/AUDIT/VALIDATION REQUIREMENTS: To be developed

REMARKS: None

WS-489

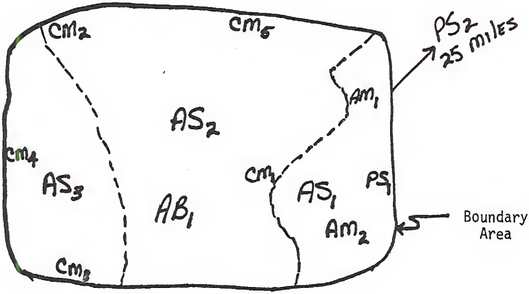
Air, I-6

AIR RESOURCES INVENTORY MAP

STATE (0004)(0690) DATE (8518)

DISTRICT (0543)

P.U. (1075)



Boundary of Inventor Area

LEGEND

AM_1 - Air Quality Monitoring Site No. 001
AM_2 - Air Quality Monitoring Site No. 002
CM_1 - Climatological Station Site No. 0001
CM_2 - Climatological Station Site No. 0002
CM_3 - Climatological Station Site No. 0003
CM_4 - Climatological Station Site No. 0004
CM_5 - Climatological Station Site No. 0005
PS_1 - Point Emission Source (Sawmill Burner)
PS_2 - Point Emission Source (Coal-Fired Power plant)

AS_1 - Sawmill Airshed, No. 1

AS_2 - Middle Airshed No. 2

AS_3 - Clean Airshed No. 3

AB_1 - Colorado Air Basin No. 1

WS-490

Prog. Area: Watershed-Air
Prep. By: G. Lipscomb
Date: 3 Aug. 77

AI-7

DATA SOURCE DESCRIPTION (DATA BASE MAINTENANCE)

TITLE/DESIGNATION: CLIMATE MAP

FORM: A field map

DESCRIPTION: A map containing climatological overlay data for a planning area (URA Step 2).

PREPARATION RESPONSIBILITY: Air Resources Specialist, Meteorologist, or Planner at Resource Area Headquarters or District Office.

FORMAT: See attached sample input.

DATA ENTRY PROCEDURE: To be determined.

FREQUENCY OF UPDATE: Each 10 years as new climatic data is compiled for data stations.

VOLUME OF UPDATE: 60 maps per year inclusive for all Bureau offices.

ARCHIVING REQUIREMENTS: When updated, move old data to archives and record new overlay data.

ACCESS LIMITATIONS: To be determined.

SPECIAL EDIT/AUDIT/VALIDATION REQUIREMENTS: To be developed.

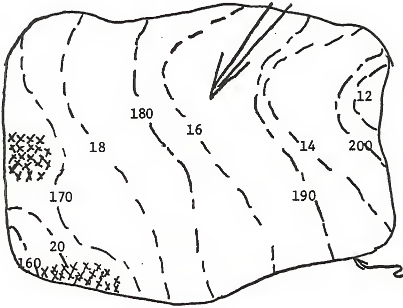
REMARKS: None

WS-491

CLIMATE MAP

State: (0004) (0690)
District: (0543)
P. U. : (1075)

Date: (7308)



Boundary of P. U.
(7501)

LEGEND

---20---	Average Annual precipitation in inches
xxx xxx	Snow Pack Areas (Dec-Mar)
⇐	Prevailing air movement
---200---	Average annual frost-free days

(this input proposed for digitizing)

WS-492

Prog. Area: Watershed-Air
Prep. By: G. Lipscomb
Date: 3 Aug. 77

AI-8

DATA SOURCE DESCRIPTION
(DATA BASE MAINTENANCE)

TITLE/DESIGNATION: AIR QUALITY MAP

FORM: A field map

DESCRIPTION: A map containing air quality overlay data for a planning area (URA Step 2).

PREPARATION RESPONSIBILITY: Air Quality Specialist or Air Resources Specialist at Resource Area Headquarters or District Office.

FORMAT: See attached sample input.

DATA ENTRY PROCEDURE: To be determined.

FREQUENCY OF UPDATE: Each 10 years as URA/MFP are updated and new data is compiled for monitoring stations.

VOLUME OF UPDATE: 60 maps per year inclusive for all Bureau offices.

ARCHIVING REQUIREMENTS: When updated, move old data to archives, and record new overlay data. Retain historical data indefinitely.

ACCESS LIMITATIONS: To be determined.

SPECIAL EDIT/AUDIT/VALIDATION REQUIREMENTS: To be developed.

REMARKS: None

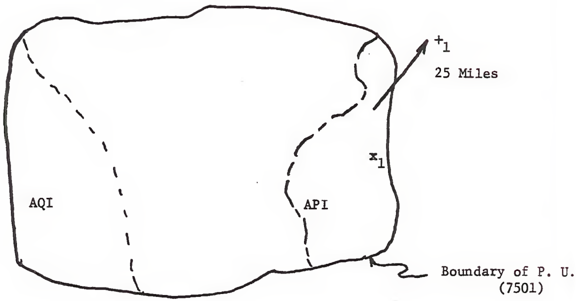
WS-493

AI-8
(URA 2)

Air Quality Map

State: (0004) (0690)
District: (0543)
P. U.: (1075)

Date: (7308)



Legend

-AQI--	Quality Airshed No. 1
-API--	Polluted Airshed No. 1
x_1	Sawmill burner No. 1
$+_1$	Power Plant (coal-fired) No. 1

(this input proposed for digitizing)

WS-494

Prog. Area: Watershed - Air
Prep. By: G. Lipscomb
Date: 12 Aug. 77

DATA SOURCE DESCRIPTION
(INITIAL DATA BASE GENERATION)

AI-9

TITLE OF SOURCE: EPA's SAROAD and NEDS Data Systems

FORM: Probably magnetic tape

DESCRIPTION: Part of EPA's Aerometric and Emissions Reporting Systems (AEROS), and includes data on ambient air quality and source emissions.

CUSTODIAN:	AGENCY:	PERSON:	PHONE:
	Environmental Protection Agency	Unknown	Unknown

LOCATION:

EPA's National Aerometric Data Banks, Research Triangle Park,
North Carolina 27711

DATA FORMAT:

Not available -- will have to be acquired through future contacts with EPA.

OVERALL DATA VALIDITY: Data in both the Storage and Retrieval of Aerometric Data (SAROAD) System, and the National Emissions Data System (NEDS) has been compiled cooperatively by EPA and State Air Quality agencies and should be the best air quality data available to BLM. (Additional evaluation should be made of this source).

OVERALL DATA CURRENCY: Both data banks are updated periodically as data is collected, compiled, and submitted by cooperating State agencies under agreements with EPA.

ACCESS/SECURITY LIMITATIONS: Not yet determined at present time -- will require future contacts with EPA.

ESTIMATED VOLUME: Unknown at present time -- will require followup with EPA.

REMARKS: The above description is based on the assumption that BLM will establish an air quality data base as part of overall system. However, a decision still remains to be made as to whether we establish our own air quality data base or store, analyze, and retrieve air quality data using EPA's present systems.

Prog. Area: Watershed - Air
Prep. By: G. Lipscomb
Date: 12 Aug. 77

AI-10

DATA SOURCE DESCRIPTION
(INITIAL DATA BASE GENERATION)

TITLE OF SOURCE: NOAA's National Climatic Center (NCC)

FORM: Probably Magnetic Tape

DESCRIPTION: A data bank containing surface and upper level climatic data for land, ocean and mobile (air, sea) stations.

CUSTODIAN: AGENCY:	PERSON:	PHONE:
National Climatic Center	Unknown	FTS 672-0683

LOCATION:
Environmental Data Service
National Oceanic and Atmospheric Administration
Asheville, North Carolina 28801

DATA FORMAT: Not available -- will have to be acquired through future contacts with the National Climatic Center.

OVERALL DATA VALIDITY: Data in the Climatic Centers' data bank comes from the weather station network of the Weather Service plus other miscellaneous stations and represents the best source of Climatic data.

OVERALL DATA CURRENCY: Data from land weather stations, which is of greatest interest to BLM, is continually collected and the data base updated accordingly. Therefore, source data should be current.

ACCESS/SECURITY LIMITATIONS: Not yet determined -- will require future contacts with the National Climatic Center.

ESTIMATED VOLUME: Unknown at present time -- will require followup with NOAA.

REMARKS: The above description is based on the assumption that BLM will establish a climatic data base as part of the overall information system. However, a decision still remains to be made as to whether we establish our own climatic data base or store, analyze, and retrieve climatic data using NOAA's present National Climatic Center system.

ccs-496

Prog. Area: Watershed-Air
Prep. By: G. Lipscomb
Date: 24 Aug. 77

AI-11

DATA SOURCE DESCRIPTION (DATA BASE MAINTENANCE)

TITLE/DESIGNATION: Climate Narrative

FORM: Narrative

DESCRIPTION: A Step 2 URA narrative describing the climate of a planning area.

PREPARATION RESPONSIBILITY: Air Resources Specialist, Meteorologist, or Planner at RAH or DO

FORMAT:

See attached sample input.

DATA ENTRY PROCEDURE:

To be determined

FREQUENCY OF UPDATE:

Each 10 years as URA/MFP updates are completed.

VOLUME OF UPDATE:

60 narratives per year for the Bureau

ARCHIVING REQUIREMENTS:

When updated, discard old narrative and record new.

ACCESS LIMITATIONS:

To be determined.

SPECIAL EDIT/AUDIT/VALIDATION REQUIREMENTS:

To be developed

REMARKS:

This input is currently required in Step 2 of URA.

WS-497

CLIMATE NARRATIVE

State: {0004} {0690} Date: {8518}
District: {0543}
Planning Unit: {1075}

Annual precipitation comes in the form of . . . .
. . . .
(4984)

Snowpack areas are limited due to . . . .
. . . .
(4984)

Humidities vary from . . . .
. . . .
(4984)

Temperatures vary from . . . .
. . . .
(4984)

US-498

AI-12

Prog. Area: Watershed-Air
Prep. By: G. Lipscomb
Date: 25 Aug. 77

DATA SOURCE DESCRIPTION
(DATA BASE MAINTENANCE)

TITLE/DESIGNATION: Air Quality Narrative

FORM: Narrative

DESCRIPTION: A Step 2 URA Narrative describing Air Quality conditions for a planning area.

PREPARATION RESPONSIBILITY: Air Resources Specialist or Air Quality Specialist at RAH or DO.

FORMAT:

See attached sample input

DATA ENTRY PROCEDURE: To be determined

FREQUENCY OF UPDATE: Each 10 years as URA/MFP updates are completed.

VOLUME OF UPDATE: 60 narratives per year for the Bureau

ARCHIVING REQUIREMENTS: When updated, discard old narrative and record new.

ACCESS LIMITATIONS: To be determined

SPECIAL EDIT/AUDIT/VALIDATION REQUIREMENTS: To be developed

REMARKS: This input is currently required in Step 2 of URA.

LUS-499

AIR QUALITY NARRATIVE

State: {0004} {0690}　　　Date: {8518}
District: {0543}
Planning Unit: {1075}

Air Pollution sources include . . . .
(4986)

A quality airshed is located . . . .
(4986)

WS-500

Prog. Area: Watershed-Geol.
Prep. By: G. Lipscomb
Date: 4 Aug 77

GI-1

DATA SOURCE DESCRIPTION
(DATA BASE MAINTENANCE)

TITLE/DESIGNATION: Spring Inventory Schedule (Modified USGS Form No. 9-1904-B)

FORM: Coded Data Form

DESCRIPTION: A field data form for recording water data at a spring site.

PREPARATION RESPONSIBILITY: Hydrologist or Geologist at Resource Area HQ, DO, SO, or DSC.

FORMAT: See attached sample input.

DATA ENTRY PROCEDURE: To be determined.

FREQUENCY OF UPDATE: Each 10 years as new data is compiled for springs.

VOLUME OF UPDATE: 2 forms per day for all Bureau offices (see Preparation Responsibility above).

ARCHIVING REQUIREMENTS: When updated, remove old data regardless of age and move to history file, and record new data. Retain historical data indefinitely.

ACCESS LIMITATIONS: To be determined.

SPECIAL EDIT/AUDIT/VALIDATION REQUIREMENTS: To be developed.

REMARKS: None.

WS-501

GI-1

FORM NO. 9-1904-B (Modified for BLM use)

Recorded by (6561) Spring Inventory Schedule **Date** (8518)

(1236) (1237) (5171)

GENERAL SPRING DATA (0) — Check One ___ English ___ Metric Units

Site Ident No [ ] 5 … 19 — RG Number [R-0 *] — Transaction [T- A D M V *] add, delete, modify, verified

Site-Type [2- S *] (5161) — Data Reliability [3- C U L M *] field checked, unchecked, location not accurate, minimal data — Reporting Agency [4- *]

Project No. [6- *] — District [8- *] (0543) — State [7- *] (0690) — County (or town) (0546) [8- *]

(1236) Latitude [9- *] deg min sec — (1237) Longitude [10- *] deg min sec — Lat-Long Accuracy [11- S F T M *] sec, 5 sec, 10 sec, Min

(5149) Local Number [12- *] — Land Net Loc. [13- S T R *] 1/4 1/4 1/4 section, township, range, merid

(6540) Location Map [14- *] — Scale [15- *] (5143) (5168)

(0431) Altitude [16- . *] — Method of Measurement [17- A L M *] altimeter, level, map (5165) — Accuracy [18- *]

(5167) Topo Setting [19- D C E F H K L 0 P S T U V W *] depression, stream channel, dunes, flat, hilltop, sink, swamp, offshore, pediment, hillside, terrace, undulating, valley flat, upland draw — Hydrologic Unit (OWDC) [20- *] (5304)

(5186) Use of Water [24- A B C D E F H I M N P R S T U Y Z *] air cond., bottling, commercial, dewater, power, fire, domestic, irrigation, medicinal, industrial, public supply, recreation, stock, institution, unused, desal, other

Secondary Water Use [25- *] — Tertiary Use of Water [26- *]

Source of Geohydrologic Data① [36- *] (5147)

OWNER IDENTIFICATION (1)

[R-158 *] [T- A D M *] add, delete, modify — Date of Ownership [159 # / / *] month day year (5152)

(5153) Name: Last [161- *] — First [162- *] — Middle Initial [163- *]

OTHER SITE IDENTIFICATION NUMBERS (1)

[R-189 *] [T- A D M *] add, delete, modify — Ident [190 # *] — Assigner [191- *]

New Card Same R & T — Ident [190 # *] — Assigner [191- *]

SITE VISIT DATA (1)

[R-186 *] [T- A D M *] add, delete, modify — Date of Visit [187# / / *] month day year (5105) — Name of Person [188- *]

FIELD WATER QUALITY MEASUREMENTS (1)

[R-192 *] [T- A D M *] add, delete, modify — Date [193 # / / *] month day year (5150) — Geohydrologic Unit [195 # *] (5104)

New Card Same R thru 195

Temperature [196 # 0 0 1 0 *] — Degrees C [197- . *]

Conductance [196 # 0 0 9 5 *] — µ Mhos [197- . *]

Other (STORET) Parameter [196 # *] — Value [197- . *]

Other (STORET) Parameter [196 # *] — Value [197- . *]

(5316) (5315)

DISCHARGE DATA (1)

[R-134 *] [T- A D M *] add, delete, modify — Entry No [135 # *] — Date [136- / / *] month day year (5145)

(5315) + (5316) Discharge [138- . *] — Source of Data① [139- *]

Method of Measurement [140- C E F M 0 R U V W Z *] current meter, estimated, flume, totaling meter, orifice, reported, venturi meter, volumetric, weir, other (5146)

FOOT NOTES

① Source of Data Codes:

[S D 0 A R L G Z] reporting agency, driller, owner, other gov't, other reported, logs, geologist, other

ll S- 5C.2

GI-1

OTHER SPRING DATA (1)

R = 171 * T = A D M * (add, delete, modify)

Spring's Name 172 = * (4061)

(5111) Type of Spring 173 = *

A	B	C	D	E	F	G	H	J	K	L	P	Q	R	S	T	Z
artesian	perched, contact	contact	depression	perched, depression	fracture	geyser	perched, tubular	artesian, depression	artesian, seepage	fracture, depression	perched	perched, fracture	perched seepage	seepage, filtration	tubular, cave	other

(5110) Permanence 174 = *

E	G	I	P	R	S	Z
ebb & flow	geyser	intermittent	perennial	precip.	seasonal	other

Sphere of Discharge 175 = * (5109)

A	W
Subaerial	Subaqueous

(5108) Improvements 176 = *

B	C	G	H	L	N	P	R	T	Z
boxed, basin	concrete, basin	gallery	spring, house	lined	none	pond	pipe	trough	other

Number of Openings 177 = * (5107)

Flow Variability 178 = *

Basis for Variability 179 = *

A	B	C	D	E	Z
one year, continuous	1-5 years, continuous	over 5 years, continuous	over year, intermittent	less than, A-D	other

---

GEOHYDROLOGIC UNIT DESCRIPTIONS (1)

R = 90 * T = A D M * (add, delete, modify)

(5104) Unit Identifier 93 = *

Lithology 96 = * (5188)

Lithologic Modifier 97 = * (5189)

WATER QUALITY DATA COLLECTION NETWORK PARTICIPATION (1)

R = 114 * T = A D M * (add, delete, modify)

Begin Year 115 # *

End Year 116 = *

Source Agency 117 = *

Frequency of Collection ② 118 = *

Type of Analyses 120 = * (5157

A	B	C	D	E	F	G	H	J	K	L	M	Z
physical	common, chemical	trace, elements	pesticides	nutrients	sanitary	codes, B&D	codes, B&E	codes, B&F	codes, D&E	codes C,D&E	all or, more	other

Network Site 257 = *

WATER PUMPAGE/WITHDRAWAL DATA COLLECTION NETWORK PARTICIPATION (1)

R = 127 * T = A D M * (add, delete, modify)

Begin Year 128 # *

End Year 129 = *

Source Agency 130 = *

Frequency of Collection ② 131 = *

Method of Collection 133 = *

C	E	M	Z
calculated	estimated	metered	other

Network Site 259 = *

OTHER DATA AVAILABLE (1)

R = 180 * T = A D M * (add, delete, modify)

Type of Data 181 # * Loc 182 = C D Z * (cooperator, district, other) Format 261 = F M P Z * (files, machine readable, published, other)

New Card Same R & T

Type of Data 181 # * Loc 182 = C D Z * Format 261 = F M P Z *

PERTINENT REMARKS (1)

R = 183 * T = A *

185 = *

(6954) New Card Same R&T

185 = *

185 = *

FOOT NOTES.

② Frequency of Collection Codes

A	B	C	D	F	I	M	0	Q	S	W	Z
annual	bi-monthly	continuous	daily	semi monthly	intermittent	monthly	one time only	quarter annual	semi annual	weekly	other

WS-503

Prog. Area: Watershed-Geol.
Prep. By: G. Lipscomb
Date: 4 Aug 77

GI-2

DATA SOURCE DESCRIPTION (DATA BASE MAINTENANCE)

TITLE/DESIGNATION: Ground-Water Site Inventory Schedule (Modified USGS Form No. 9-1904-A).

FORM:Coded Data Form.

DESCRIPTION: A field data form for recording water data for ground-water sites other than springs.

PREPARATION RESPONSIBILITY: Hydrologist or Geologist at Resource Area HQ, DO, SO or DSC.

FORMAT: See attached sample input.

DATA ENTRY PROCEDURE: To be determined.

FREQUENCY OF UPDATE: Each 10 years as new data is compiled for ground-water sites other than springs.

VOLUME OF UPDATE: 4 forms per day for all Bureau offices.

ARCHIVING REQUIREMENTS: When updated, remove old data regardless of age, and move to history file, and record new data. Retain historical data indefinitely.

ACCESS LIMITATIONS: To be determined.

SPECIAL EDIT/AUDIT/VALIDATION REQUIREMENTS: To be developed.

REMARKS: None.

US-504

GI-2

FORM NO 9-1904-A (modified for BLM Use)

Groundwater Site Inventory Schedule

Date (8518)

(1236) (1237) (5157)

Check One ___ English ___ Metric Units

GENERAL SITE DATA (0)

Site Ident No [ ] 19 — RG Number R-0 — Transaction T- A D M V (add, delete, modify, verified)

(5161) Site-Type 2- C D H I M P T W (collector, drain, sinkhole, connector, multiple, pond, tunnel or shaft, well) — Data Reliability 3- C U L M (field checked, unchecked, location not accurate, minimal data) — Reporting Agency 4-

Project No. 5- — (0543) District 6- — (0690) State 7- — County (or town) (0546) — 8-

(1236) Latitude 9- (deg min sec) — (1237) Longitude 10- (deg min sec) — Lat-Long Accuracy 11- S F T M (sec, 5 sec, 10 sec, Min)

(5149) Local Number 12- — Land Net Loc. 13- 1/4 1/4 1/4 S section, T township, R range, meridian

(6540) Location Map 14- — Scale 15- (5143) (5168)

(0431) Altitude 16- (5165) Method of Measurement 17- A L M (altimeter, level, map) — Accuracy 18-

(5167) Topo Setting 19- D C E F H K L O P S T U V W (depression, stream channel, dunes, flat, hilltop, sink, swamp, offshore, pediment, hillside, terrace, undulating, valley flat, upland draw) — Hydrologic Unit (OWDC) 20- (5304)

(5184) Date of First Construction/Completion 21- / / (month day year) — Use of Site 23- A D E G H O M P R S T U W X Z (anode, drain, geothermal, seismic, heat reservoir, observation, mine, oil or gas, recharge, repressure, test, unused, withdrawal, waste, destroyed) (5179)

(5186) Use of Water 24- A B C D E F H I M N P R S T U Y Z (air cond., bottling, commercial, dewater, power, fire, domestic, irrigation, medicinal, industrial, public supply, recreation, stock, institution, unused, desal, other)

Secondary Water Use 25- — Tertiary Use of Water 26- — (5180) Depth of Hole 27- — (5174) Depth of Well 28- — Source of Depth Data① 29-

(5178) Water Level 30- — (5134) Date Measured 31- / / (month day year) — (5177) Source① 33-

(5176) Method of Measurement 34- A C E G H L M R S T V Z (airline, calibrated airline, estimated, pressure gage, calibrated pressure gage, geophysical logs, manometer, reported, steel tape, electric tape, calibrated electric tape, other)

(5175) Site Status 37- D F G H O P R S T V X Z (dry, flowing, nearby flowing, nearby recently flowing, obstruction, pumping, recently pumped, nearby pumping, nearby recently pumped, foreign substance, surface water effects, other)

Source of Geohydrologic Data① 38- (5147) Pump Used 35- (no) — Measuring Point 266- (5194) — Measuring Point Date 267- / / (month day year) (5193)

OWNER IDENTIFICATION (1)

R-158 — T- A D M (add, delete, modify) — Date of Ownership 159 # / / (month day year) (5152)

(5153) Name: Last 161- — First 162- — Middle Initial 163-

OTHER SITE IDENTIFICATION NUMBERS (1)

R-189 — T- A D M (add, delete, modify) — Ident 190 # — Assignor 191-

New Card Same R & T — Ident 190 # — Assignor 191-

SITE VISIT DATA (1)

R-186 — T- A D M (add, delete, modify) — (5105) Date of Visit 187# / / (month day year) — Name of Person 188-

FIELD WATER QUALITY MEASUREMENTS (1)

R-192 — T- A D M (add, delete, modify) — (5150) Date 193 # / / (month day year) — Geohydrologic Unit 195 # (5104)

New Card Same R thru 195

Temperature 196 # 0 0 0 1 0 — Degrees C 197-

Conductance 196 # 0 0 0 9 5 — µ Mhos 197-

Other (STORET) Parameter 196 # — Value 197-

Other (STORET) Parameter 196 # — Value 197-

(5316) (5315)

FOOT NOTES:

① Source of Data Codes:

S D O A R L G Z (reporting agency, driller, owner, other gov't, other reported, logs, geologist, other)

US-505

WELL CONSTRUCTION DATA (1)

R = 58 * | T = A O M * (add, delete, modify) | Entry No 59 # ___ * | Date of Construction Completion 80 = __/__/__ * (month day year) | Source of ① Const. Data 84 = __ *

Name of Contractor/Driller 83 = ______________ * (5185)

(5181) Method of Construction 85 = A B C D H J P R T V W Z *

A	B	C	D	H	J	P	R	T	V	W	Z
air-, rotary	bored, or augered	cable-, tool	dug,	hydraulic, rotary	jetted,	air-per-, cussion	reverse, rotary	trenching,	driven,	drive, wash	other

(5187) Finish 86 = C F G H O P S T W X Z *

C	F	G	H	O	P	S	T	W	X	Z
porous, concrete	gravel w. perf	gravel, screen	horizontal, gallery,	open, end	perforated, or slotted	screen,	sand point,	walled,	open, hole	other

Type of Seal 67 = B C G Z * (5156)

B	C	G	Z
bentonite,	clay,	cement, grout	other

Bottom of Seal 88 = ___ *

Method of Development 89 = A B C J N P S Z * (5159)

A	B	C	J	N	P	S	Z
air-lift,	bailed,	compressed, air	jetted,	none	other, pump	surged,	other

Number of Hours in Development 70 = ___ * (5158)

Special Treatment During Development 71 = C D E F H M Z *

C	D	E	F	H	M	Z
chemicals,	dry ice,	explosives,	deflocculent,	hydrofracturing,	mechanical,	other

---

DIMENSIONS OF THE HOLE CONSTRUCTED (2)

R = 72 * | T = A D M * (add, delete, modify) | Construction Entry No 59 # ___ *

New Card for Each Hole Segment Same R, T & Field 5 9

Top of Hole Segment Below LSD	Bottom of Hole Segment below LSD	Diameter of Hole Segment
73 # ____.__ *	74 = ____.__ *	75 = ____.__ *
73 # ____.__ *	74 = ____.__ *	75 = ____.__ *
73 # ____.__ *	74 = ____.__ *	75 = ____.__ *
73 # ____.__ *	74 = ____.__ *	75 = ____.__ *
73 # ____.__ *	74 = ____.__ *	75 = ____.__ *

CASING SCHEDULE (2)

R = 76 * | T = A O M * (add, delete, modify) | Construction Entry No 59 # ___ *

New Card for Each Casing With Same R, T & Field 5 9

Top of Casing Segment Below LSD	Bottom of Casing Segment Below LSD	Diameter of Casing Segment	Casing Material ⑤	Thickness of Casing
77 # ____.__ *	78 = ____.__ *	79 # ____.__ *	80 = __ *	81 = ____.__ *
77 # ____.__ *	78 = ____.__ *	79 # ____.__ *	80 = __ * (5172)	81 = ____.__ *
77 # ____.__ *	78 = (5173) ____.__ *	79 # (5163) ____.__ *	80 = __ *	91 = ____.__ *
77 # ____.__ *	78 = ____.__ *	79 # ____.__ *	80 = __ *	81 = ____.__ *
77 # ____.__ *	78 = ____.__ *	79 # ____.__ *	80 = __ *	81 = ____.__ *

OPENINGS SCHEDULE (2)

R = 82 * | T = A D M * (add, delete, modify) | Construction Entry No 59 # ___ *

New Card for Each Open Section With Same R, T and Field 5 9

	(Openings Data)	(Openings Data)	(Openings Data)
Top of Section Below LSD	83 # ____.__ *	93 # ____.__ *	83 # ____.__ *
Bottom of Section Below LSD	84 = ____.__ *	84 = ____.__ *	84 = ____.__ *
Type of Openings ⑥	85 = _ *	85 = _ *	85 = _ *
Type of Material ⑦	86 = _ *	86 = _ *	86 = _ *
Diameter of Open Section	87 = ___.__ *	87 = ___.__ *	87 = ___.__ *
Width of Opening	88 = ___.__ *	88 = ___.__ *	88 = ___.__ *
Length of Opening	89 = ___.__ *	89 = ___.__ *	89 = ___.__ *

(5162)

FOOT NOTES:

① Source of Data Codes:

S	D	O	A	R	L	G	Z
reporting, agency	driller,	owner,	other gov't,	other reported,	logs,	geologist,	other

⑤ Casing Material Codes

B	C	G	I	M	P	R	S	T	U	W	Z
brk,	concrete,	galv, iron	wrought, iron	other, metal	PVC or plastic	rock or, stone	steel,	tile,	coated, steel	wood,	other

⑥ Type of Openings Codes

F	L	M	P	R	S	T	W	X	Z
fracture,	louvered, shuttered	mesh,	perforated, or slotted	wire wound	screen, (unknown)	sand, point	walled,	open, hole	other

⑦ Type of Material Codes for Open Section

B	C	G	I	M	P	R	S	T	Z
brass or, bronze	concrete,	galv, iron	wrought iron	[illegible]	PVC or, plastic	stainless, steel	steel,	tile,	other

WS-506

GI-2

PRODUCTION DATA (1)

(5315) + (5316)

R- 134 146 * (flowing, pumped) | T- A D M * (add, delete, modify) | Entry No 147# * | Date 149- / / * (month day year) (5145)

Discharge 150- . * | Source of Data① 151- *

(5176) Method of Measurement 152- B C E F M O P R T U V W Z *

B	C	E	F	M	O	P	R	T	U	V	W	Z
boiler	current meter	estimated	flume	rotating meter	orifice	pitot-tube meter	reported	trajectory	venturi	volumetric	weir	other

(5190) Production Level 153- . * | Static Level 154- . * (5197) | Source① of Data 155- * | Specific Capacity 272- . * (5102)

(5176) Method of Measurement 156- A C E G H L M R S T V Z * | Pumping Period 157- . * (5135)

A	C	E	G	H	L	M	R	S	T	V	Z
airline	calibrated airline	estimated	pressure gage	calibrated pressure gage	geophysical logs	manometer	reported	steel tape	electric tape	calibrated electric tape	other

LIFT DATA (1)

(5195)

R-42 * | T- A D M * (add, delete, modify) | Type of Lift 43# A B C J P R S T U Z * | Entry No 254# *

A	B	C	J	P	R	S	T	U	Z
air	bucket	centrifugal	jet	piston	rotary	submergible	turbine	unknown	other

Pump Intake Setting 44- * | Type of Power 56- D E G H L N W Z * (5182)

D	E	G	H	L	N	W	Z
diesel	electric	gasoline	hand	LP gas	natural gas	windmill	other

Date 38- / / * (month day year) | Horsepower 46- . * (5183)

MAJOR PUMP DATA (2)

R-47 * | T- A D M * (add, delete, modify) | Type of Lift 43# * | Lift Entry No 254# * | Manufacturer of Pump 48- *

Serial No of Pump 49- * | Name of Power Company 50- *

Power Company Account No 51- * | Power Meter No 52- * | Pump Rating 53- . *

Person or Company Who Maintains the Pump 54- * | Additional Lift 255- * | Rated Pump Capacity 268- *

STANDBY POWER DATA (2) (See LIFT DATA for codes of fields 43 and 56 below)

R-58 * | T- A D M * (add, delete, modify) | Type of Lift 43# * | Type of Power 56- * | Horsepower 57- . * | Lift Entry No 254# *

AVAILABLE LOG DATA (1)

R-198 * | T- A D M * (add, delete, modify)

New Card for Each Log Type Same R & T

(5160)

Type of Log②	Begin Depth	End Depth	Source of Data①
198# *	200- . *	201- . *	202- *
198# *	200- . *	201- . *	202- *
198# *	200- . *	201- . *	202- *
198# *	200- . *	201- . *	202- *

WATER QUALITY DATA COLLECTION (1)

R-114 * | T- A D M * (add, delete, modify) | Begin Year 115# * | End Year 116- * | Source Agency 117- *

Frequency of Collection③ 118- * | Network Site 257- * | Type of Analyses④ 120- * (5157)

WATER LEVEL DATA COLLECTION (1)

R-121 * | T- A D M * (add, delete, modify) | Begin Year 122# * | End Year 123- * | Source Agency 124- *

Frequency of Collection③ 125- * | Network Site 258- *

WATER PUMPAGE/WITHDRAWAL DATA COLLECTION (1)

R-127 * | T- A D M * (add, delete, modify) | Begin Year 128# * | End Year 129- * | Source Agency 130- *

Frequency of Collection③ 131- * | Network Site 259- * | Method of Collection 133- C E M Z * (calculated, estimated, metered, other)

OTHER DATA AVAILABLE (1)

R-180 * | T- A D M * (add, delete, modify) | Type of Data 181# * | Loc 182- C D Z * (cooperator, district, other) | Format 261- F M P Z * (files, machine readable, published, other)

New Card Same R & T | Type of Data 181# * | Loc 182- C D Z * | Format 261- F M P Z *

FOOT NOTES:

① Source of Data Codes:

B	D	Ø	A	R	L	G	Z
reporting agency	driller	owner	other gov't	other reported	logs	geologist	other

② Type of Log Codes

A	B	C	D	E	F	G	H	I	J	K	L	M	N	Ø	P	Q
time	collar	caliper	driller's	electric	fluid conductivity	geologist	magnetic	induction	gamma ray	dipmeter	laterlog	microlog	neutron	[illegible]	photo	radio-activity

S	T	U	V	Z
sonic	temp	gamma gamma	fluid velocity	other

③ Frequency of Collection Codes

A	B	C	D	F	I	M	Ø	Q	S	W	Z
annual	bi-monthly	continuous	daily	semi monthly	intermittent	monthly	one time only	quarter annual	semi annual	weekly	other

④ Type of Quality Analyses Codes

A	B	C	D	E	F	G	H	J	K	L	M	Z
chemical	common chemical	trace elements	pesticides	nutrients	sanitary	codes B&D	codes B&E	codes B&F	codes D&E	codes C,D&E	all or most	other

115-507

GEOHYDROLOGIC UNIT DESCRIPTIONS (1)

R-90 * T- A D M * (add, delete, modify) Entry No 256 # * Depth to Top (5190) 91- . * Depth to Bottom (5191) 92- . *

(5104) Unit Identifier 93- * (5188) Lithology 96- * Lithologic Modifier 97- * (5189)

AQUIFER DATA (2)

R-94 * T- A D M * (add, delete, modify) Geohydrologic Unit Entry No 256 # *

Date 95 # / / * (month day year) Water Level 126- . * % Water Contributed 132- *

GEOHYDROLOGIC UNIT DESCRIPTIONS (1)

R-90 * T- A D M * (add, delete, modify) Entry No 256 # * Depth to Top 91- . * Depth to Bottom 92- . *

Unit Identifier 93- * Lithology 96- * Lithologic Modifier 97- *

AQUIFER DATA (2)

R-94 * T- A D M * (add, delete, modify) Geohydrologic Unit Entry No 256 # *

Date 95 # / / * (month day year) Water Level 126- . * % Water Contributed 132- *

(6954) **PERTINENT REMARKS**

R-183 * T- A * (add) 185- ' ' *

New Card Same R&T 185- ' ' *

185- ' ' *

NOTES:

Prog. Area: Watershed-Geol.
Prep. By: G. Lipscomb
Date: 4 Aug 77

GI-3

DATA SOURCE DESCRIPTION
(DATA BASE MAINTENANCE)

TITLE/DESIGNATION: Geologic Map

FORM: A field map.

DESCRIPTION: A field map with annotations and legend displaying various geologic data (e.g., formation boundaries, faults, anticlines, synclines, dips, etc.) for a planning area.

PREPARATION RESPONSIBILITY: Geologist at Resource Area HQ, DO or SO.

FORMAT: See attached sample input.

DATA ENTRY PROCEDURE: To be determined.

FREQUENCY OF UPDATE: Each 10 years as new inventory data is collected.

VOLUME OF UPDATE: 60 maps per year inclusive for all Bureau offices.

ARCHIVING REQUIREMENTS: When updated, move old data to archives, and record new map data. Retain historical data indefinitely.

ACCESS LIMITATIONS: To be determined.

SPECIAL EDIT/AUDIT/VALIDATION REQUIREMENTS: To be developed.

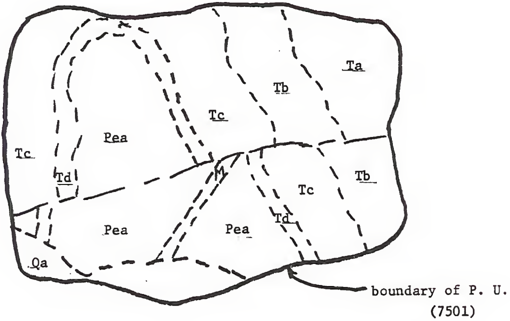
REMARKS: None.

115-509

GEOLOGIC MAP GI-3

State (0004) (0690)
District (0543)
P. U. (1075)

Date: (7308)



Legend

Qa	Quaternary Stream Alluvial Gravels
Ta	Albert Formation
Tb	Bertim Sandstone
Tc	Charles Shale
Td	Delta Conglomerate
M	Quartz
Pea	Altimet Gneiss
_ - _	Fault Line

105-510

Prog. Area: Watershed-Geol.
Prep. By: G. Lipscomb
Date: 4 Aug 77

GI-4

DATA SOURCE DESCRIPTION
(DATA BASE MAINTENANCE)

TITLE/DESIGNATION: Geologic Hazard Map

FORM: A field map.

DESCRIPTION: A field map with legend displaying boundaries of areas with geologic hazards for a planning area.

PREPARATION RESPONSIBILITY: Geologist at Resource Area HQ, DO, or SO.

FORMAT: See attached sample input.

DATA ENTRY PROCEDURE: To be determined.

FREQUENCY OF UPDATE: Each 10 years as new data is collected.

VOLUME OF UPDATE: 60 maps per year inclusive for all Bureau offices.

ARCHIVING REQUIREMENTS: When updated, move old data to archives, and record new data.

ACCESS LIMITATIONS: To be determined.

SPECIAL EDIT/AUDIT/VALIDATION REQUIREMENTS: To be developed.

REMARKS: None.

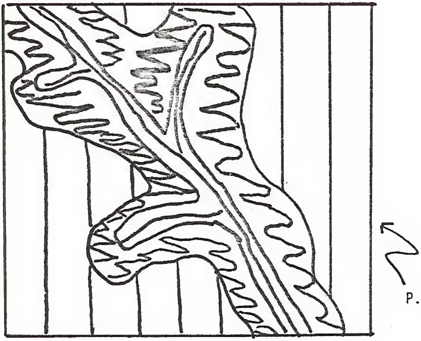
WS-511

GI-4

GEOLOGIC HAZARD MAP

State (0004) (0690)
District (0543)
P. U. (1075

Date: (7308)



P.U. Boundary
(7501)

Legend

§ Landslide Susceptibility

☐ Flood Susceptibility

▥ No Landslide/ Flood Susceptibility

(5129)

WS-512

Prog. Area: Watershed-Geol.
Prep. By: G. Lipscomb.
Date: 4 Aug 77

GI-5

DATA SOURCE DESCRIPTION
(DATA BASE MAINTENANCE)

TITLE/DESIGNATION: Map of Landforms.

FORM: A field map.

DESCRIPTION: A field map with legend displaying boundaries of physiographic regions, drainage patterns, and geomorphic features for a planning area.

PREPARATION RESPONSIBILITY: Geologist at Resource Area HQ, DO or SO.

FORMAT: See attached sample input.

DATA ENTRY PROCEDURE: To be determined.

FREQUENCY OF UPDATE: Each 10 years as new data is collected.

VOLUME OF UPDATE: 60 maps per year inclusive for all Bureau offices.

ARCHIVING REQUIREMENTS: When updated, move old data to archives, and record new data.

ACCESS LIMITATIONS: To be determined.

SPECIAL EDIT/AUDIT/VALIDATION REQUIREMENTS: To be developed.

REMARKS: None.

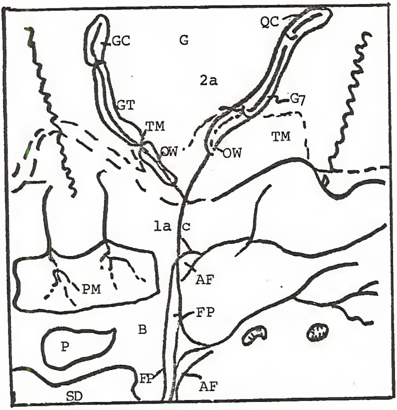
WS-513

GI-5

MAP OF LANDFORMS

State (0004) (0690)
District (0543)
P. U. (1075)

Date: (7308)



Legend

1aC 2a Physiographic Region (6538)

GT Geomorphic Feature

●	Sinkhole	(5132)
G	Glaciated Area	
GC	Glacial Cirque	
GT	Glacial Trough	
TM	Terminal Moraine	
OW	Outwash	
F	Fluvial Area	
PM	Piedmont	

AF	Alluvial Fan	(5132)
P	Playa	
B	Bolson	
SD	Sand Dunes	
	Ridges	
	Streams	
	Geologic Boundaries	

US-514

Prog. Area: Watershed-Geol.
Prep. By: G. Lipscomb
Date: 4 Aug 77

GI-6

DATA SOURCE DESCRIPTION (DATA BASE MAINTENANCE)

TITLE/DESIGNATION: Map of Interpretive Areas

FORM: A field map.

DESCRIPTION: A field map with legend displaying boundaries of areas with significant interpretive value for a planning area.

PREPARATION RESPONSIBILITY: Geologist at Resource Area HQ, DO, or SO.

FORMAT: See attached sample input.

DATA ENTRY PROCEDURE: To be determined.

FREQUENCY OF UPDATE: Each 10 years as new data is collected.

VOLUME OF UPDATE: 60 maps per year inclusive for all Bureau offices.

ARCHIVING REQUIREMENTS: When updated, move old data to archives, and record new data. Retain historical data indefinitely.

ACCESS LIMITATIONS: To be determined.

SPECIAL EDIT/AUDIT/VALIDATION REQUIREMENTS: To be developed.

REMARKS: None.

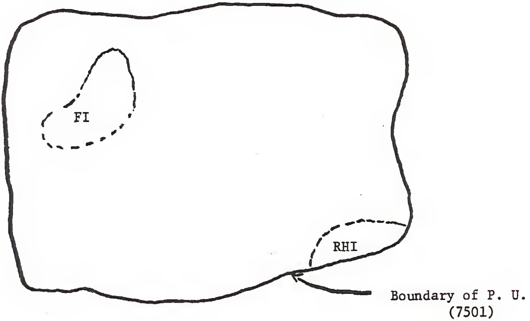
WS-5'5

GI-6

MAP OF INTERPRETIVE AREAS

State (0004) (0609)
District (0543)
P. U. (1075)

Date: (7308)



Legend

RHI	Geologic Materials For Rockhounding
FI	Area Containing Fossils

215-516

Prog. Area: Watershed-Geol.
Prep. By: G. Lipscomb
Date: 4 Aug 77

GI-7

DATA SOURCE DESCRIPTION
(DATA BASE MAINTENANCE)

TITLE/DESIGNATION: Topography Overlay

FORM: A field map.

DESCRIPTION: An overlay with annotations/legend displaying lines of equal land surface elevation for a planning area (URA Step 2).

PREPARATION RESPONSIBILITY: Geologist, Geomorphologist, or Planner at Resource Area HQ or DO.

FORMAT: See attached sample input.

DATA ENTRY PROCEDURE: To be determined.

FREQUENCY OF UPDATE: Update rarely required except for isolated areas subject to topographic change.

VOLUME OF UPDATE: Insignificant.

ARCHIVING REQUIREMENTS: If updated, move old data to archives, and record new data. Retain historical data indefinitely.

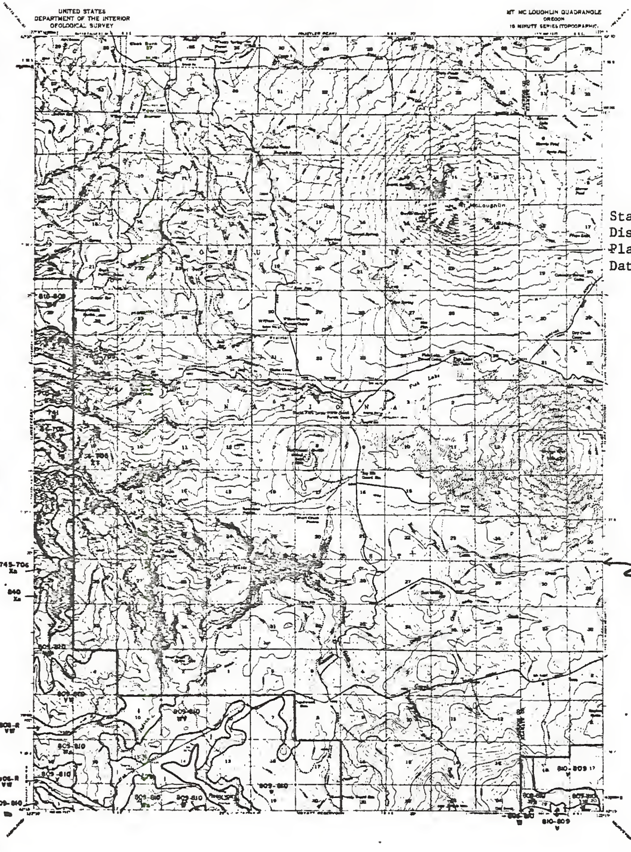
ACCESS LIMITATIONS: To be determined.

SPECIAL EDIT/AUDIT/VALIDATION REQUIREMENTS: To be developed.

REMARKS: Data for this input may be acquired from US Geological Survey.

TOPOGRAPHY OVERLAY

GI-7



State (0004) (0690
District (0543)
Planning Unit (10
Date (7308)

Boundary of
P. U.
(7501)

WS-518

Prog. Area: Watershed-Geol.
Prep. By: G. Lipscomb
Date: 4 Aug 77

GI-8

DATA SOURCE DESCRIPTION (DATA BASE MAINTENANCE)

TITLE/DESIGNATION: Topography Table

FORM: A URA data form.

DESCRIPTION: A form for recording information on significant topographic points within a planning area.

PREPARATION RESPONSIBILITY: Geologist, Geomorphologist, or Planner at Resource Area HQ, or DO.

FORMAT: See attached sample input.

DATA ENTRY PROCEDURE: To be determined.

FREQUENCY OF UPDATE: Update rarely required.

VOLUME OF UPDATE: Insignificant.

ARCHIVING REQUIREMENTS: If updated, move old data to archives, and record new data. Retain historical data indefinitely.

ACCESS LIMITATIONS: To be determined.

SPECIAL EDIT/AUDIT/VALIDATION REQUIREMENTS: To be developed.

REMARKS: None.

WS-519

TOPOGRAPHY TABLE

State (0004) (0690)
District (0543)
Planning Unit (1075)

Date (7308)

Name of Significant Point	Location (Section, Township, Range)	Elevation
(5198)	(2501/1695/1699)	(0431)

Prog. Area: Watershed-Geol.
Prep. By: G. Lipscomb
Date: 25 Aug. 77

GI-9

DATA SOURCE DESCRIPTION
(DATA BASE MAINTENANCE)

TITLE/DESIGNATION: Narrative for Geology

FORM: Narrative

DESCRIPTION:

A Step 2 URA narrative describing the geology of a planning area.

PREPARATION RESPONSIBILITY:

Geologist at RAH, DO or SO

FORMAT: See attached sample input

DATA ENTRY PROCEDURE: To be determined

FREQUENCY OF UPDATE: Each 10 years as URA/MFP updates are completed.

VOLUME OF UPDATE: 60 narratives per year for the Bureau.

ARCHIVING REQUIREMENTS:

When updated, discard old data and record new.

ACCESS LIMITATIONS: To be determined

SPECIAL EDIT/AUDIT/VALIDATION REQUIREMENTS: To be developed.

REMARKS: This input is currently required in Step 2 of URA

WS-521

NARRATIVE FOR GEOLOGY

State: {0004} {0690}
District: {0543}
Planning Unit: {1075}

Date: {8518}

Quaternary gravels are located . . . .

(5201)

The Albert Formation consists of . . . .

(5201)

Bertim Sandstone is situated . . . .

(5201)

{ETC.}

115-527

GI-10

Prog. Area: Watershed-Geol.
Prep. By: G. Lipscomb
Date: 25 Aug. 77

DATA SOURCE DESCRIPTION
(DATA BASE MAINTENANCE)

TITLE/DESIGNATION: Other Limiting Physical Factors Narrative

FORM: Narrative

DESCRIPTION: A Step 2 URA narrative describing geologic hazards which are limiting factors for a planning area.

PREPARATION RESPONSIBILITY: Geologist at RAH and DO.

FORMAT:

See attached sample input.

DATA ENTRY PROCEDURE:

To be determined

FREQUENCY OF UPDATE: Each 10 years as URA/MFP updates are completed.

VOLUME OF UPDATE: 60 narratives per year for the Bureau

ARCHIVING REQUIREMENTS: When updated, discard old narrative and record new.

ACCESS LIMITATIONS: To be determined

SPECIAL EDIT/AUDIT/VALIDATION REQUIREMENTS: To be developed.

REMARKS:

This input is currently required in Step 2 of URA.

115-523

OTHER LIMITING PHYSICAL FACTORS NARRATIVE

State: {0004} {0690}
District: {0543}
Planning Unit: {1075}

Date: {8518}

Geologic hazards are located in the . . . . and they consist of. . . . .
(5202)

Historic earthquakes include . . . .
which occured during . . . .
(5202)

Prog. Area: Watershed-Geol.
Prep. By: G. Lipscomb
Date: 25 Aug. 77

GI-11

DATA SOURCE DESCRIPTION
(DATA BASE MAINTENANCE)

TITLE/DESIGNATION: Topography Narrative

FORM: Narrative

DESCRIPTION: A Step 2 URA narrative describing the topography of a planning area.

PREPARATION RESPONSIBILITY: Geologist or Geomorphologist at RAH or DO.

FORMAT:

See attached sample input.

DATA ENTRY PROCEDURE:

To be determined

FREQUENCY OF UPDATE:

Update rarely required except for isolated areas subject to topographic change.

VOLUME OF UPDATE:

Insignificant

ARCHIVING REQUIREMENTS: If updated, discard old narrative and record new.

ACCESS LIMITATIONS: To be determined

SPECIAL EDIT/AUDIT/VALIDATION REQUIREMENTS: To be developed.

REMARKS: This input is currently required in Step 2 of URA

TOPOGRAPHY NARRATIVE

State: {0004} {0690}
District: {0543}
Planning Unit: {1075}

Date: {8518}

Topographic characteristics of the area include . . . . .
. . . .
(5200)

Significant points of interest include . . . .
. . . .
(5200)

Slope vary from . . . .
. . . .
(5200)

Prog. Area: Watershed-Water
Prep. By: ~~G. Lipscomb~~
Date: 4 Aug 77

WI-1

DATA SOURCE DESCRIPTION
(DATA BASE MAINTENANCE)

TITLE/DESIGNATION: Surface-Water Station Record for Streams

FORM: Coded data form

DESCRIPTION: A field data form for recording stream quantity and quality information collected at gaging stations along with station site information.

PREPARATION RESPONSIBILITY: Hydrologist or Water Quality Specialist at Resource Area HQ, District Office, or State Office.

FORMAT: See attached sample input (data elements only -- form not yet designed).

DATA ENTRY PROCEDURE: To be determined.

FREQUENCY OF UPDATE: Daily for 500 automated stations, and monthly for 1,000 non-automated stations.

VOLUME OF UPDATE: 500 forms per day plus 1,000 forms per month for all Bureau offices.

ARCHIVING REQUIREMENTS: Maintain one water year's data (Oct. 1-Sept. 30) in system--upon addition of another year's data, make required analyses of previous water year's data and transfer to history file which is to be maintained for the life of the water resource station record.

ACCESS LIMITATIONS: To be determined.

SPECIAL EDIT/AUDIT/VALIDATION REQUIREMENTS: To be developed.

REMARKS: None

WS-527

SURFACE-WATER STATION RECORD FOR STREAMS

	Data Elements	
1.	State, Administrative or State, Geographic	(100-0004) (100-0690)
2.	District, Administrative	(100-0543)
3.	Area, Resource	(100-0418)
4.	Planning Unit	(100-1075)
5.	County, ETC	(100-0546)
6.	Latitude	(100-1236)
7.	Longitude	(100-1237)
8.	Meridian	(100-1703)
9.	Township	(100-1695)
10.	Range	(100-1699)
11.	Section	(100-2501)
12.	Legal Subdivision, Aliquot-part	(100-2502)
13.	Code, Watershed	(145-5304)
14.	Number, Station Type	(145-5303)
15.	Name, Water Resource Station	(145-5302)
16.	Parameter, Water Resource	(145-5316)
17.	Value, Water Resource Parameter	(145-5315)
18.	Date, Recorded	(100-8518)
19.	Time	(100-6926)
20.	Time Interval for Measurement	(143-4925)
21.	Method, Measurement	(100-5311)

22.	Method Code, Water Quality	(145-5319)
23.	Code, Pollution Source	(145-5320)
24.	Elevation	(100-0431)
25.	Acres, Watershed Drainage Area	(145-5321)
26.	Comments, Miscellaneous	(100-6954)

115-529

Prog. Area: Watershed-Water
Prep. By: G. Lipscomb
Date: 5 Aug 77

WI-2

DATA SOURCE DESCRIPTION
(DATA BASE MAINTENANCE)

TITLE/DESIGNATION: Water Quality Standards by State

FORM: Coded data form

DESCRIPTION: A form for recording established water quality standards by state.

PREPARATION RESPONSIBILITY: Water Quality Specialist or Hydrologist at DO, SO, or DSC.

FORMAT: See attached sample input.

DATA ENTRY PROCEDURE: To be determined

FREQUENCY OF UPDATE: Annually for National/State standards to each 5 years for local/BLM standards.

VOLUME OF UPDATE: 600 forms per year for all Bureau offices which may update one or all parameter standards.

ARCHIVING REQUIREMENTS: Upon update, replace old standards data and record new data--only for those parameter standards included in the new data.

ACCESS LIMITATIONS: To be determined

SPECIAL EDIT/AUDIT/VALIDATION REQUIREMENTS: To be developed

REMARKS: None

WATER QUALITY STANDARDS BY STATE

State: (0004) (0690)
District: (0543)
Planning Unit: (1075)

Date: (7308)

			Parameter Standards - (5316)				
Watershed	Agency Establishing Standards	Type of Standard	ph	Temperature	Coliform	Turbidity	Etc.
(5304)	(5312)	(5313)		←	(5315) (3658)	→	Other Parameters

115-5-31

SURFACE-WATER STATION RECORD FOR LAKES/RESERVOIRS

	Data Elements	
1.	State, Administrative	(100-0004)
	or	
	State, Geographic	(100-0690)
2.	District, Administrative	(100-0543)
3.	Area, Resource	(100-0418)
4.	Planning Unit	(100-1075)
5.	County, ETC	(100-0546)
6.	Latitude	(100-1236)
7.	Longitude	(100-1237)
8.	Meridian	(100-1703)
9.	Township	(100-1695)
10.	Range	(100-1699)
11.	Section	(100-2501)
12.	Legal Subdivision, Aliquot-part	(100-2502)
13.	Code, Watershed	(145-5304)
14.	Number, Station Type	(145-5303)
15.	Name, Water Resource Station	(145-5302)
16.	Parameter Water Resource	(145-5316)
17.	Value, Water Resource Parameter	(145-5315)
18.	Date Recorded	(100-8518)
19.	Time	(100-6926)
20.	Time Interval for Measurement	(143-4925)

115-532

Prog. Area: Watershed-Water
Prep. By: G. Lipscomb
Date: 5 Aug 77

WI-3

DATA SOURCE DESCRIPTION
(DATA BASE MAINTENANCE)

TITLE/DESIGNATION: Surface-Water Station Record for Lakes/Reservoirs

FORM: Coded Data Form

DESCRIPTION: A field data form for recording lake/reservoir quantity and quality information collected at gaging stations along with station site information.

PREPARATION RESPONSIBILITY: Hydrologist or Water Quality Specialist at Resource Area HQ, DO, or SO.

FORMAT: See attached sample input (data elements only--form not yet designed).

DATA ENTRY PROCEDURE: To be determined

FREQUENCY OF UPDATE: Daily for 250 automated stations.

VOLUME OF UPDATE: 250 forms per day plus 500 forms per month for all Bureau offices.

ARCHIVING REQUIREMENTS: Maintain one water year's data (Oct. 1-Sept. 30) in system--upon addition of another year's data, make required analyses of file which is to be maintained for the life of the water resource station record.

ACCESS LIMITATIONS: To be determined.

SPECIAL EDIT/AUDIT/VALIDATION REQUIREMENTS: To be developed.

REMARKS: None.

115-533

21.	Method, Measurement	(100-5311)
22.	Method Code, Water Quality	(145-5319)
23.	Code, Pollution Source	(145-5320)
24.	Elevation	(100-0431)
25.	Acres, Watershed Drainage Area	(145-5321)
26.	Water type, Lake and Reservoir Survey	(161-6935)
27.	Comments, Miscellaneous	(100-6954)

Prog. Area: Watershed-Water
Prep. By: G. Lipscomb
Date: 5 Aug 77

WI-6

DATA SOURCE DESCRIPTION
(DATA BASE MAINTENANCE)

TITLE/DESIGNATION: Basin Record

FORM: Coded data form

DESCRIPTION: A field data form for recording basin characteristics and relationships for hydrologic analyses purposes.

PREPARATION RESPONSIBILITY: Hydrologist at Resource Area HQ or DO.

FORMAT: See attached sample input (data elements only--form not yet designed).

DATA ENTRY PROCEDURE: To be determined.

FREQUENCY OF UPDATE: Each 2 years as additional basin characteristics are collected through inventories and surveys.

VOLUME OF UPDATE: 500 forms per year for all Bureau offices.

ARCHIVING REQUIREMENTS: Manitain initial and updated data in system (updates will include supplemental and revised data only--no data will go to history file or archives)

ACCESS LIMITATIONS: To be determined

SPECIAL EDIT/AUDIT/VALIDATION REQUIREMENTS: To be developed

REMARKS: None

WS-535

BASIN RECORD

	Data Elements	
1.	State, Administrative	(100-0004)
	or	
	State, Geographic	(100-0690)
2.	District, Administrative	(100-0543)
3.	Code, Watershed	(145-5304)
4.	Name Watershed	(145-5416)
5.	Acres, Watershed Drainage Area	(145-5321)
6.	Watershed Length	(145-5323)
7.	Watershed Width	(145-5324)
8.	Watershed Orientation	(145-5329)
9.	Mean Watershed Slope	(145-5330)
10.	Elevation, Highest	(100-7036)
11.	Elevation, Lowest	(100-7037)
12.	Watershed Contour	(145-5331)
13.	Watershed, Percent Area Above Contour	(145-5332)
14.	Watershed Elevation	(145-5334)
15.	Node, Confluence	(145-5344)
16.	Angle of Junction	(145-5340)
17.	Stream Order	(145-5335)
18.	Number of Stream Order Segments	(145-5336)
19.	Total Stream Order Length	(145-5338)
20.	Reach, Stream	(145-5351)

WS-536

21.	Cross-Section, Channel	(145-5347)
22.	Area, Channel Cross-Sectional	(145-5346)
23.	Perimeter, Wetted	(145-5349)
24.	Manning N, Channel Cross-Section	(145-5348)
25.	Datum, Channel Cross-Section	(145-5350)
26.	Gradient, Channel	(145-5345)
27.	Vegation Sub-Type	(132-2706)
28.	Hydrologic Soil Group	(141-4562)
29.	Acres, Soil-Cover Complex Area	(145-5357)
30.	Rate, Initial Infiltration	(145-5354)
31.	Capacity, Soil Water Storage	(145-5355)

Prog. Area: Watershed-Water
Prep. By: G. Lipscomb
Date: 5 Aug 77

WI-5

DATA SOURCE DESCRIPTION
(DATA BASE MAINTENANCE)

TITLE/DESIGNATION: Annual Nonconsumptive Water Requirements - Rivers and Streams.

FORM: Coded data form (1600-17)

DESCRIPTION: A field data form for recording the annual nonconsumptive water uses from rivers and streams within a planning area (URA Steps 2, 3, & 4).

PREPARATION RESPONSIBILITY: Hydrologist, Watershed Specialist, or Planner at Resource Area HQ or DO.

FORMAT: See attached sample format

DATA ENTRY PROCEDURE: To be determined.

FREQUENCY OF UPDATE: Each 10 years as URA/MFP updates are completed and information compiled for update of National Water Assessment.

VOLUME OF UPDATE: 60 forms per year for all Bureau offices.

ARCHIVING REQUIREMENTS: When updated, move old data to archives, and record new data. Retain historical data indefinitely.

ACCESS LIMITATIONS: To be determined.

SPECIAL EDIT/AUDIT/VALIDATION REQUIREMENTS: To be developed.

REMARKS: None

u5-538

ANNUAL NONCONSUMPTIVE WATER REQUIREMENTS-RIVERS AND STREAMS

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

ANNUAL NONCONSUMPTIVE WATER REQUIREMENTS
RIVERS AND STREAMS

Planning Unit (Name) (1078)
Morgan Mountain

1. Transaction Code ☐ Correct ☐ Delete
(0004) (0690) 2. State O R
3. District 0 1 (0543)
4. Planning Unit 2 1 (1075)
(0546) 5. County 0 1 1
(5304) 6. Hydrologic Subregion 1 2 7 6
(8578) 7. Date 1 2 mo 7 5 yr

		WILD AND SCENIC (5448)		USE			MINIMUM FLOW REQUIREMENTS – C.F.S.			
(4061) NAME (a)	CRITICAL POINT OR REACH (b) (5447)	ACTUAL (c)	PROPOSED (d)	(5449) TYPE (e)	5450 SEASON (f)	MEAN MINIMUM FLOW C.F.S. (5451) (g)	(5477) PRESENT (h)	(5478) 1980 (i)	(5479) 2000 (j)	(5480) 2030 (k)
Lost Cannon Cr.	1 mi. - above S. Fork - BLM		-	Fish Trout	Spring Summer	4	1.5	1.5	1.5	1.5
Mill Cr.	1.5 mi. below Bridge - BLM		-	Fish Trout	Spring Summer	15	5	5	5	5
Dilmhard Cr.	11 mi. - above Johnson Rapids 4 mi. - pvt. 7 mi. - BLM		-	Fish Salmon	Fall and Winter	6 2	2 1.0	2	2	2 1.0
				Boat	Spring		5	5	8	5
Mad River	25 mi. - below Rock Cr. Dam 8 mi. - pvt. 17 mi. - BLM			Boat	Year long	30	30	30	30	30

Form 1600–17 (April 1975)

(Instructions on reverse)

1115-5539

Prog. Area: Watershed-Water
Prep. By: G. Lipscomb
Date: 5 Aug 77

WI-6

DATA SOURCE DESCRIPTION
(DATA BASE MAINTENANCE)

TITLE/DESIGNATION: Annual Nonconsumptive Water Requirements - Lakes & Reservoirs.

FORM: Coded data form (1600-18)

DESCRIPTION: A field data form for recording the annual nonconsumptive water uses from lakes and reservoirs within a planning area (URA Steps 2, 3 & 4).

PREPARATION RESPONSIBILITY: Hydrologist, Watershed Specialist, or Planner at Resource Area HQ or DO.

FORMAT: See attached sample format.

DATA ENTRY PROCEDURE: To be determined.

FREQUENCY OF UPDATE: Each 10 years as URA/MFP updates are completed, and information is compiled for update of National Water Assessment.

VOLUME OF UPDATE: 60 forms per year for all Bureau offices.

ARCHIVING REQUIREMENTS: When updated, move old data to archives, and record new data.

ACCESS LIMITATIONS: To be determined

SPECIAL EDIT/AUDIT/VALIDATION REQUIREMENTS: To be developed.

REMARKS: None

115-540

ANNUAL NONCOMSUPTIVE WATER REQUIREMENTS-LAKES AND RESERVOIRS

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

ANNUAL NONCONSUMPTIVE WATER REQUIREMENTS
LAKES AND RESERVOIRS

Planning Unit (Name) (1075) Morgan Mountain

1. Transaction Code ☐ Correct ☐ Delete	(6004) (6040) 2. State 2 6	(5343) 3. District 0 1	(1575) 4. Planning Unit 2 1	(5846) 5. County 0 3 1	(5304) 6. Hydrologic Subregion 1 7 7 6	(8518) 7. Date 1 2 mo 7 9 yr

(4061) NAME (a)	(6935) TYPE (b)	USE		UNITS		(5433) MEAN MINIMUM STORAGE (g)	MINIMUM REQUIREMENTS			
		(5449) TYPE (c)	(5430) SEASON (d)	(5434) ACRES (e)	(5435) ACRE-FEET (f)		(5481) PRESENT (h)	(5482) 1985 (i)	(5483) 2000 (j)	(5484) 2010 (k)
Topaz Lake	Artificial	Fish Cold Water	Year Long	1600 1/	59,440	19,000	25,000	25,000	30,000	30,000
							Volume needed to maintain spawning temp. requirements			
		Rec. Boat Swim. Ski	Spring and Summer				30,000	30,000	30,000	30,000
							Volume needed for boating surface Minimum clearance above rocks and snags			
Johnson Reservoir	Artificial	Fish Warm Water	Year Long	49	900	40	40	100	100	100
							Volume needed to increase fish production			

1/ The 1600 surface acres are approx. 1/3 in California and 2/3 in Nevada. It supports a high quality trout fishery

(Instructions on reverse)

Form 1600—18 (April 1973)

145-5111

Prog. Area: Watershed-Water
Prep. By: G. Lipscomb
Date: 5 Aug 77

WI-7

DATA SOURCE DESCRIPTION
(DATA BASE MAINTENANCE)

TITLE/DESIGNATION: Annual Consumptive Water Requirements

FORM: Coded data form (1600-19)

DESCRIPTION: A field data form for recording BLM annual consumptive water uses from all sources and by activity within a planning area (URA Steps 2, 3 & 4).

PREPARATION RESPONSIBILITY: Hydrologist, Watershed Specialist or Planner at Resource Area HQ or DO.

FORMAT: See attached sample input

DATA ENTRY PROCEDURE: To be determined

FREQUENCY OF UPDATE: Each 10 years as URA/MFP updates are completed, and information is compiled for update of National Water Assessment.

VOLUME OF UPDATE: 60 forms per year for all Bureau offices.

ARCHIVING REQUIREMENTS: When updated, move old data to archives, and record new data. Retain historical data indefinitely.

ACCESS LIMITATIONS: To be determined.

SPECIAL EDIT/AUDIT/VALIDATION REQUIREMENTS: To be developed.

REMARKS: None

115-542

ANNUAL CONSUMPTIVE WATER REQUIREMENTS

U.S. DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

ANNUAL CONSUMPTIVE WATER REQUIREMENTS

1. Transaction Code __ Correct __ Delete	(2010) (0004) 2. State 2 2	(0543) 3. District 0 3	(1073) 4. Planning Unit 0 2	(0546) 5. County 0 1 4	(5304) 6. WRC Subregion 1 6 0 3	(8516) 7. Date 0 6 mo 7 9 yr	8. Name (1075) Pyramid P.U.

TYPE OF WATER USE			ANNUAL REQUIREMENTS						
			URA-STEP 3 PRESENT (19)				URA-STEP 4 FUTURE		
(8457) DISCIPLINE OR SUPPORT ACTIVITY (a)	(5449) SPECIFIC USE (b)	(5468) ACTIVITY AND WATER UNITS (c)	SURFACE FLOW (d)	SURFACE STORAGE (e)	SUBSURFACE (f)	TOTAL (g)	[illegible] (h)	2000 (i)	[illegible] (j)
Lands 1/	SLUP's	Acre-Feet							
	Rights-of-way	Acre-Feet							
	Other (specify)	Acre-Feet							
Minerals 1/	Mining and Drilling	Number							
		Acre-Feet							
	Processing	Number							
		Acre-Feet							
Forest Products	Nursery Irrigation	Acres							
		Acre-Feet							
	Production Irrigation	Acres							
		Acre-Feet							
Range Management	Animal Use	AUM's				23,960	25,600	29,300	31,600
		Acre-Feet	.7	.5	22.7	23.9	25.7	29.4	31.7
	Pasture Irrigation	Acres							
		Acre-Feet							
Watershed	Watershed Irrigation	Acres							
		Acre-Feet							
	Water Control Structures	Number				9	9	30	45
		Acre-Feet		.6		.6	.6	2.0	3.0
Wildlife	Large Mammals	AUM's				9,600	9,600	9,620	9,660
		Acre-Feet	.9			.9	.9	.9	.9
	Other Wildlife	Acres				150,000	150,000	225,000	225,000
		Acre-Feet	.2			.2	.2	.3	.3
	Fish Product Facilities	Number							
		Acre-Feet							
	Waterfowl Habitat	Acres							
		Acre-Feet							
	Habitat Irrigation	Acres							
		Acre-Feet							

(5462)

← (5461) >

(Continued on reverse)

Form 1400—19 (April 1975)

TYPE OF WATER USE		ACTIVITY AND WATER UNITS	ANNUAL REQUIREMENTS						
			URA – STEP 3 PRESENT (19)				URA – STEP 4 FUTURE		
RESOURCE OR SUPPORT ACTIVITY (a)	SPECIFIC USE (b)	(c)	SURFACE FLOW (d)	SURFACE STORAGE (e)	SUBSURFACE (f)	TOTAL (g)	1980 (h)	1990 (i)	2000 (j)
Recreation	Visitor Use	Rec. Days				20,000	24,000	28,000	36,000
		Acre-Feet			.9	.9	1.1	1.3	1.6
Fire Protection	Water Stored	Acre-Feet	2.7	.9		3.6	3.6	3.6	3.6
Construction and Maintenance	Roads	Miles							
		Acre-Feet							
	Trails	Miles				23	33	33	33
		Acre-Feet			.1	.1	.2	.2	.2
	Administration Sites	Number					3	11	17
		Acre-Feet							
	Administration Site Irrigation	Acres				1	1	1	1
		Acre-Feet	.5			.5	.5	.5	.5
Impoundments	Lakes and Ponds	Number				1	1	1	1
		Acre-Feet		331.5		331.5	331.5	331.5	331.5
Other *(specify)*		Acre-Feet							
Total Water Need		Acre-Feet	5.0	333.5	23.7	362.2	363.3	369.6	373.3

P

GENERAL INSTRUCTIONS

District Office prepares two copies. File one copy in District under 1736, and one copy in URA. Use the following ratios to convert and consolidate data on water requirements to an acre-foot base.

1 gallon	= 231.0 cubic inches
1 cubic foot	= 7.48052 gallons
1 acre-foot	= 43560.0 cubic feet
1 cubic foot	= 0.000022957 acre-foot
1 acre-foot	= 325851.43857 gallons
1 gallon	= 0.000003069 acre-foot
1 second foot (cfs)	= 1.98347 acre-feet/day

SPECIFIC INSTRUCTIONS

(Items not listed are self-explanatory)

Item 1	Identification Code – For use after ADP programs have been developed.
2–4	These are mutually exclusive. If any one of these changes, prepare another Form 1600–10. For codes see BLM Manual section 1280.
6	Water Resources Council Subregion – Use the code numbers established by the (WRC) for river basin, and water and related land planning.
Column (d)–(g)	For each specific use in column (b), enter present annual requirements for each activity listed in column (c).
(h)–(j)	Enter future requirements.
	For further instructions see BLM Manual section 1605, Illustration 12.

Prog. Area: Watershed-Water
Prep. By: G. Lipscomb
Date: 5 Aug 77

WI-8

DATA SOURCE DESCRIPTION
(DATA BASE MAINTENANCE)

TITLE/DESIGNATION: Channel and Stream Information Map

FORM: A field map

DESCRIPTION: A map with annotations and legend delineating watershed boundary and drainage network, stream order numbers, stream cross-section locations, and stream reaches.

PREPARATION RESPONSIBILITY: Hydrologist or Engineer at Resource Area HQ, DO, or SO.

FORMAT: See attached sample input.

DATA ENTRY PROCEDURE: To be determined.

FREQUENCY OF UPDATE: Each 2 years as additional channel/stream data is compiled through inventories and surveys.

VOLUME OF UPDATE: 500 maps per year inclusive for all Bureau offices.

ARCHIVING REQUIREMENTS: When updated, move old map data to archives, and record new map information.

ACCESS LIMITATIONS: To be determined

SPECIAL EDIT/AUDIT/VALIDATION REQUIREMENTS: To be developed

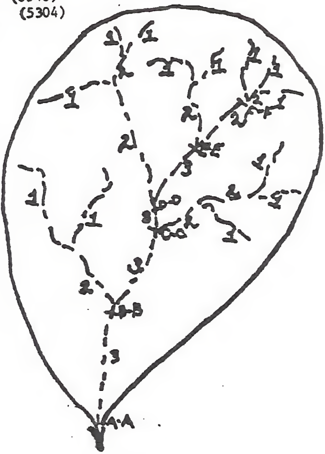
REMARKS: None

WI-8

CHANNEL AND STREAM INFORMATION MAP

State: (0004) (0690)
District: (0543)
Watershed: (5304)

Date: (2302)



Legend

—1—	Stream of first order
—2—	Stream of second order
—3—	Stream of third order
A-A	Cross-section of stream at mouth of basin
A-B	Reach of Stream between A-A and B-B
———	Basin boundary
→	Direction of flow

WS-546

Watershed-Water
Prog. Area: G. Lipscomb
Prep. By: 5 Aug 77
Date:

WI-9

DATA SOURCE DESCRIPTION
(DATA BASE MAINTENANCE)

TITLE/DESIGNATION: Cultural Developments and Treatments Map

FORM: A field map

DESCRIPTION: A map with annotations and legend delineating watershed boundaries, development project locations, treatment project boundaries, and vegetation sub-types.

PREPARATION RESPONSIBILITY: Hydrologist or Watershed Specialist at Resource Area HQ or DO.

FORMAT: See attached sample input.

DATA ENTRY PROCEDURE: To be determined.

FREQUENCY OF UPDATE: Each 2 years--to add supplemental information on new developments/treatments where they have been constructed since last update.

VOLUME OF UPDATE: 500 maps per year for all Bureau offices

ARCHIVING REQUIREMENTS: When updated, move old map data to archives, and record new map information. Retain historical data indefinitely.

ACCESS LIMITATIONS: To be determined.

SPECIAL EDIT/AUDIT/VALIDATION REQUIREMENTS: To be developed.

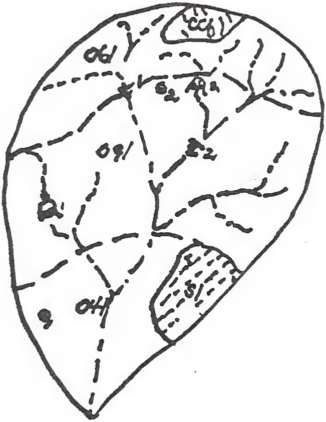
REMARKS: None

WS-547

CULTURAL DEVELOPMENTS AND TREATMENTS MAP

State: (0004) (0690)
District: (0543)
Watershed: (5304)

Date: (2302)



Legend

$\ominus_1$	Well Number 1
1	Detention Dam Number 1
1	Reservoir Number 1
S1	Seeding Number 1
CC1	Clear Cut Number 1
061	Douglas Fir
—	Basin Boundary

115-548

Watershed-Water
Prog. Area: ____________
Prep. By: G. Lipscomb
Date: 5 Aug 77

WI-10

DATA SOURCE DESCRIPTION
(DATA BASE MAINTENANCE)

TITLE/DESIGNATION: Map of Water Resources

FORM: A field map

DESCRIPTION: A map with annotations and legend delineating a planning area together with water resources data on surface and ground water (URA Step 2).

PREPARATION RESPONSIBILITY: Hydrologist or Watershed Specialist at Resource Area HQ or DO.

FORMAT: See attached sample input.

DATA ENTRY PROCEDURE: To be determined.

FREQUENCY OF UPDATE: Each 10 years as additional data becomes available for URA/MFP update.

VOLUME OF UPDATE: 60 maps per year for all Bureau offices

ARCHIVING REQUIREMENTS: When updated, move old map data to archives, and record new map information. Retain historical data indefinitely.

ACCESS LIMITATIONS: To be determined.

SPECIAL EDIT/AUDIT/VALIDATION REQUIREMENTS: To be developed.

REMARKS: None.

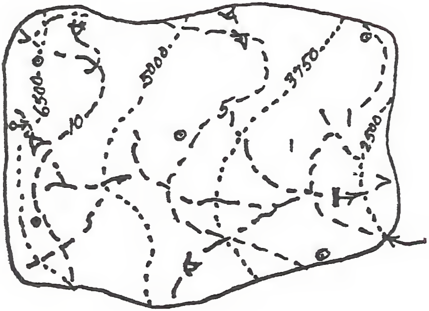
WS-549

WI-10
(URA 2)

MAP OF WATER RESOURCES

State: (0004) (0690)
District: (0543)
P. U.: (1075)

Date: (2302)



boundary of P. U.
(7501)

Legend

—— -	Stream
●	Well
▽	Reservoir
▲	Detention Dam
●→	Spring
-5-	Average Annual Runoff (inches)
- - - 2500 - - -	Ground-Water Level (feet above MSL)

115-550

Prog. Area: Watershed-Water
Prep. By: G. Lipscomb
Date: 8 Aug 77

WI-11

DATA SOURCE DESCRIPTION
(DATA BASE MAINTENANCE)

TITLE/DESIGNATION: Map of Water Quality and Water Yield

FORM: A field map.

DESCRIPTION: A map with annotations and legend delineating boundaries of water quality problem areas, quality monitoring stations, and significant water yield areas (URA Step 3, Watershed).

PREPARATION RESPONSIBILITY: Hydrologist, Water Quality Specialist or Watershed Specialist at Resource Area HQ or DO.

FORMAT: See attached sample input.

DATA ENTRY PROCEDURE: To be determined.

FREQUENCY OF UPDATE: Each 10 years as new inventory data becomes available for URA/MFP update.

VOLUME OF UPDATE: 60 maps per year for all Bureau offices.

ARCHIVING REQUIREMENTS: When updated, move old map data to archives and record new data. Retain historical data indefinitely.

ACCESS LIMITATIONS: To be determined.

SPECIAL EDIT/AUDIT/VALIDATION REQUIREMENTS: To be developed.

REMARKS: None.

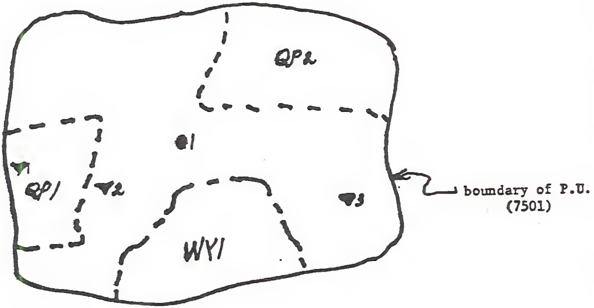
215-551

WI-11
(URA 3)

MAP OF WATER QUALITY AND WATER YIELD

State:: (0004) (0690)
District: (0543)
P. U. : (1075)

Date: (2302)



Legend

▼1	Water quality monitoring station No. 1 (Stream)
●1	Water quality monitoring station No. 1 (Well)
QP1	Water quality problem area (sediment from area with poor ground cover)
QP2	Water quality problem area (sediment from area with poor ground cover)
WY1	Significant water yield area (municipal water supply)

115552

Prog. Area: Watershed-Water
Prep. By: G. Lipscomb
Date: 8 Aug 77

WI-12

DATA SOURCE DESCRIPTION
(DATA BASE MAINTENANCE)

TITLE/DESIGNATION: Map of Flood and Sediment Damage

FORM: A field map.

DESCRIPTION: A map with annotations and legend delineating boundaries of flood and sediment source and damage areas (URA Step 3, Watershed).

PREPARATION RESPONSIBILITY: Hydrologist or Watershed Specialist at Resource Area HQ or DO.

FORMAT: See attached sample input.

DATA ENTRY PROCEDURE: To be determined.

FREQUENCY OF UPDATE: Each 10 years as new inventory data becomes available for URA/MFP update.

VOLUME OF UPDATE: 60 maps per year for all Bureau offices.

ARCHIVING REQUIREMENTS: When updated, move old map data to archives and record new data. Retain historical data indefinitely.

ACCESS LIMITATIONS: To be determined.

SPECIAL EDIT/AUDIT/VALIDATION REQUIREMENTS: To be developed.

REMARKS: None.

WS-553

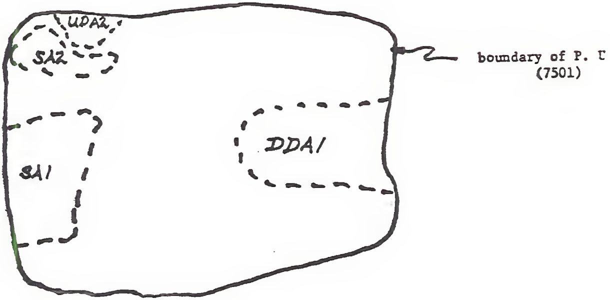
WI-12

MAP OF FLOOD AND SEDIMENT DAMAGE

(URA 3)

State: (0004) (0690)
District: (0543)
P. U. : (1075)

Date: (2302)



Legend

DDA1	Damage area No. 1, developed
UDA2	Damage area no. 2 undeveloped
SA1	Source area for DDA1
SA2	Source area for UDA2

415-554

Watershed-Water
Prog. Area:
Prep. By: G. Lipscomb
Date: 8 Aug 77

WI-13

DATA SOURCE DESCRIPTION
(DATA BASE MAINTENANCE)

TITLE/DESIGNATION: Map of Water Use Areas for Watershed

FORM: A field map

DESCRIPTION: A map with annotations and legend depicting locations of water use areas for Watershed (URA Step 3).

PREPARATION RESPONSIBILITY: Hydrologist or Watershed Specialist at Resource Area HQ or DO.

FORMAT: See attached sample input.

DATA ENTRY PROCEDURE: To be determined.

FREQUENCY OF UPDATE: Each 10 years as new data becomes available for URA/MFP update.

VOLUME OF UPDATE: 60 maps per year for all Bureau offices.

ARCHIVING REQUIREMENTS: When updated, move old map data to archives and record new data. Retain historical data indefinitely.

ACCESS LIMITATIONS: To be determined.

SPECIAL EDIT/AUDIT/VALIDATION REQUIREMENTS: To be developed.

REMARKS: None.

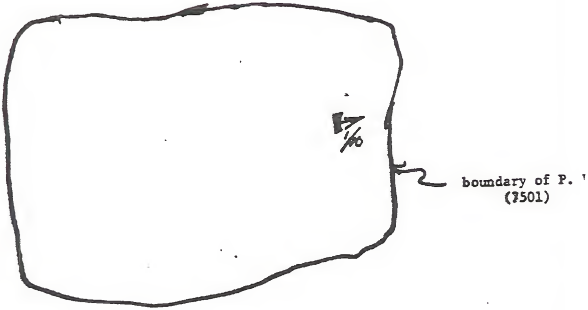
WS-555

WI-13
(URA, 3)

MAP OF WATER USE AREAS FOR WATERSHED

State: (0004) (0690)
District: (0543)
P. U. : (1075)

Date: (2302)



Legend

Detention dam (1)requiring average annual use of 10 acre-feet of water.

ws-556

Watershed-Water
Prog. Area:
Prep. By: G. Lipscomb
Date: 8 Aug 77

WI-14

DATA SOURCE DESCRIPTION
(DATA BASE MAINTENANCE)

TITLE/DESIGNATION: Stream Diversions Record

FORM: Coded data form

DESCRIPTION: A field data form for recording data on water diversions within a planning area (URA Step 2).

PREPARATION RESPONSIBILITY: Hydrologist, Watershed Specialist or Planner at Resource Area HQ or DO.

FORMAT: See attached sample input.

DATA ENTRY PROCEDURE: To be determined

FREQUENCY OF UPDATE: Each 10 years as new data becomes available for URA/MFP update.

VOLUME OF UPDATE: 60 forms per year for all Bureau offices.

ARCHIVING REQUIREMENTS: When updated, move old data to archives and record new data.

ACCESS LIMITATIONS: To be determined.

SPECIAL EDIT/AUDIT/VALIDATION REQUIREMENTS: To be developed.

REMARKS: None.

LL5-557

State : (0004) (0690) STREAM DIVERSIONS Record
District: (0543)

P.U. Jackson River (1075)

Date 1/15/75 (2352)

Drainage Basin: Sacramento (5304)

Name	1) Location	2) Type	Owner or Agency	Annual Diversion (acre feet)
(5454)	(2501) (1645)(1644)	(5456)	(5451)	(5458)
Acme Ditch	Sec 15 T20N R7W	Irrig.	Acme Cattle Co.	1,000
Rock Cr. Dam	Sec 22 T20N R7W	City Water System	Jacksonville City Water Dept.	2,000
Allen Pump	Sec 10 T20N R7W	Irrig.	B.O. Allen	80
Jones Pump	Sec 2 T20N R7W	Irrig.	Jones Ranch Inc.	200
Slide Cr. Ditch	Sec 1 T20N R7W	Livestock and Wildlife Water	BLM	10
3) Total				3,290

1) Legal description.
2) Type refers to use made of the water.
3) Subtotal for each stream where more than one diversion is made.

WS-558

Prog. Area: Watershed-Water
Prep. By: G. Lipscomb
Date: 11 Aug 77

WI-15

DATA SOURCE DESCRIPTION
(DATA BASE MAINTENANCE)

TITLE/DESIGNATION: Surface-Water Supply Table

FORM: URA data form.

DESCRIPTION: A form for recording surface water data for a planning area (URA 2).

PREPARATION RESPONSIBILITY: Hydrologist, Watershed Specialist, or Planner at Resource Area HQ or DO.

FORMAT: See attached sample input.

DATA ENTRY PROCEDURE: To be determined.

FREQUENCY OF UPDATE: Each 10 years as URA/MFP updates are completed.

VOLUME OF UPDATE: 60 forms per year for all Bureau offices.

ARCHIVING REQUIREMENTS: Upon update, replace old data with new. Do not retain historical data.

ACCESS LIMITATIONS: To be determined.

SPECIAL EDIT/AUDIT/VALIDATION REQUIREMENTS: To be developed.

REMARKS: None.

WS-559

SURFACE-WATER SUPPLY TABLE

State: (0004) (0690)
District: (0543)
Planning Unit Pyramid (1075)

Date 4/4/75 (8518)

NAME	Runoff Inches	Area in P.U. (acres)	Ann. Yield Ac/Ft	Sediment p.p.m.	Sed.Yld. Cu/Yd	Total Dissolved Solids (P.P.M.)
(5304)	(5417)	(6520)	(5419)	(5420)	(5421)	(5422)
Able Cr.	5.0	5,000	2,083	125	307	85
Baxter Cr.	2.5	40,000	8,333	300	2,450	50
Cherry Cr.	0.5	155,000	6,458	1,100	8,382	115
TOTAL	8.0	200,000	16,874	☒	11,139	☒

115-560.

Prog. Area Watershed-Water
Prep. By: G. Lipscomb
Date: 11 Aug 77

WI-16

DATA SOURCE DESCRIPTION
(DATA BASE MAINTENANCE)

TITLE/DESIGNATION: Lake and Reservoir Water Supply Table

FORM: URA data form.

DESCRIPTION: A form for recording lake and reservoir data for a planning area (URA 2).

PREPARATION RESPONSIBILITY: Hydrologist, Watershed Specialist or Planner at Resource Area HQ or DO.

FORMAT: See attached sample input.

DATA ENTRY PROCEDURE: To be determined

FREQUENCY OF UPDATE: Each 10 years as URA/MFP updates are completed.

VOLUME OF UPDATE: 60 forms per year for all Bureau offices

ARCHIVING REQUIREMENTS: Upon update, replace old data with new. Do not retain historical data.

ACCESS LIMITATIONS: To be determined.

SPECIAL EDIT/AUDIT/VALIDATION REQUIREMENTS: To be developed.

REMARKS: None.

WS-561

P.U. Fort Lexington (1075)

Date 12/3/74 (8518)

Drainage Basin Central (5300)

LAKE AND RESERVOIR WATER SUPPLY TABLE

Lake or Reservoir Name	Size Surface Acres	Total Capacity Ac/Ft	Evaporation Ac/Ft	Minimum Pool Ac/Ft	Usable Storage Ac/Ft	Mean Annual Drawdown Ac/Ft	Mean Annual Carryover Ac/Ft
Green River Sinks (Natural Lake)	25,000	2,800,000	100,000	5,000	N/A	N/A	N/A
St. Helena (Reservoir) (4601)	3,250 (5424)	63,000 (5425)	12,000 (5426)	20,000 (5427)	31,000 (5428)	31,000 (5429)	20,000 (5430)
Total	28,250	2,863,000	112,000	25,000	31,000	31,000	20,000

State (0004) (0690)
District (0543)

WI-16
(URA 2)

115-562

Prog. Area: Watershed-Water
Prep. By: G. Lipscomb
Date: 11 Aug 77

WI-17

DATA SOURCE DESCRIPTION
(DATA BASE MAINTENANCE)

TITLE/DESIGNATION: Ground-Water Supply Table

FORM: URA data form

DESCRIPTION: A form for recording ground-water supply data for a planning area (URA 2).

PREPARATION RESPONSIBILITY: Hydrologist, Geologist, Watershed Specialist, or Planner at Resource Area HQ or DO.

FORMAT: See attached sample input.

DATA ENTRY PROCEDURE: To be determined.

FREQUENCY OF UPDATE: Each 10 years as URA/MFP updates are completed.

VOLUME OF UPDATE: 60 forms per year for all Bureau offices.

ARCHIVING REQUIREMENTS: Upon update, replace old data with new. Do not retain historical data.

ACCESS LIMITATIONS: To be determined.

SPECIAL EDIT/AUDIT/VALIDATION REQUIREMENTS: To be developed.

REMARKS: None.

#75-517

State [illegible] (0610)
District (0543)
P.D. [illegible] (1075)

GROUND WATER SUPPLY TABLE

Date 4/13/79 (8518)

Name of Basin	Area (Acres)	Depth (Feet)	Storage (Ac/Ft)	Production (Ac/Ft)	Recharge Rate (Ac/Ft)	Storage Chge. (Ac/Ft)	Total Dissolved Solids (P.P.M.)	Other
Pahrah Desert	50,000	225	1,000,000	12,600	13,600	400	500	Salt intrusions, below domestic quality
Hidden Valley	210,000	100	3,000,000	50,000	51,000	1,000	150	
(5431)	(5432)	(5433)	(5434)	(5435)	(5436)	(5437)	(5438)	(6954)
Totals	260,000		4,000,000	62,000	64,000	1,400		

HI-17
(URA 8)

Prog. Area: Watershed-Water
Prep. By: G. Lipscomb
Date: 11 Aug 77

MI-18

DATA SOURCE DESCRIPTION
(DATA BASE MAINTENANCE)

TITLE/DESIGNATION: Table of Unused Water Supply

FORM: URA data form

DESCRIPTION: A form for recording unused water supply data for a planning area (URA 2).

PREPARATION RESPONSIBILITY: Hydrologist, Watershed Specialist or Planner at Resource Area HQ or DO.

FORMAT: See attached sample input.

DATA ENTRY PROCEDURE: To be determined.

FREQUENCY OF UPDATE: Each 10 years as URA/MFP updates are completed.

VOLUME OF UPDATE: 60 forms per year for all Bureau offices.

ARCHIVING REQUIREMENTS: Upon update, replace old data with new. Do not retain historical data.

ACCESS LIMITATIONS: To be determined.

SPECIAL EDIT/AUDIT/VALIDATION REQUIREMENTS: To be developed.

REMARKS: None.

WS-565

Date: (0318)

Table of Unused Water Supply

State (0004) (0690)
District (0543)
P.U. (1075)

Name of Basin	Mean Annual unused supply of Surface water (AC/FT)	Mean Annual unused supply of Ground water (AC/FT)	Mean Annual unused supply (AC/FT)
(5304)	(5443)	(5444)	(5445)

7775-5177

Prog. Area: Watershed-Water
Prep. By: G. Lipscomb
Date: 11 Aug 77

WI-19

DATA SOURCE DESCRIPTION
(DATA BASE MAINTENANCE)

TITLE/DESIGNATION: Total Storage Capacity Table.

FORM: URA data form.

DESCRIPTION: A form for recording usable storage data of lakes and reservoirs within a planning area (URA 2).

PREPARATION RESPONSIBILITY: Hydrologist, Watershed Specialist, or Planner, at Resource Area HQ or DO.

FORMAT: See attached sample input.

DATA ENTRY PROCEDURE: To be determined.

FREQUENCY OF UPDATE: Each 10 years as URA/MFP updates are completed.

VOLUME OF UPDATE: 60 forms per year for all Bureau offices.

ARCHIVING REQUIREMENTS: Upon update, replace old data with new. Do not retain historical data.

ACCESS LIMITATIONS: To be determined.

SPECIAL EDIT/AUDIT/VALIDATION REQUIREMENTS: To be developed.

REMARKS: None.

(URA #)

Date: (8518)

TOTAL STORAGE CAPACITY TABLE

State (0004) (0690)
District (0543)
P.U. (1075)

Name of Basin	Usable Storage capacity of Lakes and Reservoirs (AC/FT)	Ground-water Storage (AC/FT)	Total Storage Capacity (AC/FT)
(5304)	(5428)	(5434)	(5446)

895-5177

Prog. Area: Watershed-Water
Prep. By: G. Lipscomb
Date: 11 Aug 77

-WI-20

DATA SOURCE DESCRIPTION
(DATA BASE MAINTENANCE)

TITLE/DESIGNATION: Table of Water Developments by Resource Activity

FORM: URA data form

DESCRIPTION: A form for recording water development project data for a planning area (URA 2).

PREPARATION RESPONSIBILITY: Hydrologist, Watershed Specialist or Planner at Resource Area HQ or DO.

FORMAT: See attached sample input.

DATA ENTRY PROCEDURE: To be determined.

FREQUENCY OF UPDATE: Each 10 years as URA/MFP updates are completed.

VOLUME OF UPDATE: 60 forms per year for all Bureau offices

ARCHIVING REQUIREMENTS: Upon update, replace old data with new. Do not retain historical data.

ACCESS LIMITATIONS: To be determined.

SPECIAL EDIT/AUDIT/VALIDATION REQUIREMENTS: To be developed.

REMARKS: None.

WS-569

Table of

State (0004)(0690) Water Developments by Resource Activity

District (0543) –

P.U. Little Hills (1075)

Date 8/17/74 (8510

(5463) TYPE	(5464) OVERLAY KEY NO. OR PROJECT NO.	(5465) DIRECT BENEFITING RESOURCE ACTIVITY	(5466) MAJOR OBJECTIVE	(5467) (5468) AMOUNT/ SIZE
Reservoir	2536	Wildlife	Big Game Summer Water	1 ac. ft.
Guzzler	2764	Wildlife	Upland Game Water	300 gal.
Well	2765	Livestock	Distribute Grazing	30/gal/min

Prog. Area: Watershed-Water
Prep. By: G. Lipscomb
Date: 11 Aug 77

WI-21

DATA SOURCE DESCRIPTION
(DATA BASE MAINTENANCE)

TITLE/DESIGNATION: Table of Significant Water Yield Areas

FORM: URA data form.

DESCRIPTION: A form for recording water yield data for a planning area (URA 3, Watershed).

PREPARATION RESPONSIBILITY: Hydrologist or Watershed Specialist at Resource Area HQ or DO.

FORMAT: See attached sample input.

DATA ENTRY PROCEDURE: To be determined.

FREQUENCY OF UPDATE: Each 10 years as URA/MFP updates are completed.

VOLUME OF UPDATE: 60 forms per year for all Bureau offices.

ARCHIVING REQUIREMENTS: Upon update, replace old data with new. Do not retain historical data.

ACCESS LIMITATIONS: To be determined.

SPECIAL EDIT/AUDIT/VALIDATION REQUIREMENTS: To be developed.

REMARKS: None.

-WS-571

TABLE OF SIGNIFICANT WATER YIELD AREAS

State (0004) (0690)

Date (8518)

District (0543)

P.U. (1075)

Watershed Name	Map Key	Acres		Mean Annual Runoff (AC/FT)	Mean Annual Water yield (AC/FT)
		BLM	Other		
(5416)	(4806)	(6594)	(6597)	(5417)	(5419)

1U5-5772

Prog. Area: Watershed-Water
Prep. By: G. Lipscomb
Date: 11 Aug 77

WI-22

DATA SOURCE DESCRIPTION
(DATA BASE MAINTENANCE)

TITLE/DESIGNATION: Flood and Sediment Damage Table

FORM: URA data form

DESCRIPTION: A form for recording flood and sediment damage data for a planning area (URA 3, Watershed).

PREPARATION RESPONSIBILITY: Hydrologist or Watershed Specialist at Resource Area HQ or DO.

FORMAT: See attached sample input.

DATA ENTRY PROCEDURE: To be determined.

FREQUENCY OF UPDATE: Each 10 years as URA/MFP updates are completed.

VOLUME OF UPDATE: 60 forms per year for all Bureau offices.

ARCHIVING REQUIREMENTS: Upon update, replace old data with new. Do not retain historical data.

ACCESS LIMITATIONS: To be determined.

SPECIAL EDIT/AUDIT/VALIDATION REQUIREMENTS: To be developed.

REMARKS: None.

WS-573

(URA 2)

FLOOD and SEDIMENT DAMAGE TABLE

State (0004) (0690)
District (0543)
P.U. (1075)

Date: (8518)

Damage Area	Acres	Type of Damage	Estimated Annual Damage
(5471)	(5472)	(5473)	(5474)

WS-574

Prog. Area: Watershed-Water
Prep. By: G. Lipscomb
Date: 11 Aug 77

WI-23

DATA SOURCE DESCRIPTION
(DATA BASE MAINTENANCE)

TITLE/DESIGNATION: Annual Consumptive Water Requirements (All Uses)

FORM: URA data form.

DESCRIPTION: A form for recording annual consumptive water use data for a planning area (URA 2).

PREPARATION RESPONSIBILITY: Hydrologist, Watershed Specialist or Planner at Resource Area HQ or DO.

FORMAT: See attached sample input.

DATA ENTRY PROCEDURE: To be determined.

FREQUENCY OF UPDATE: Each 10 years as URA/MFP updates are completed.

VOLUME OF UPDATE: 60 forms per year for all Bureau offices.

ARCHIVING REQUIREMENTS: Upon update, replace old data with new. Do not retain historical data.

ACCESS LIMITATIONS: To be determined.

SPECIAL EDIT/AUDIT/VALIDATION REQUIREMENTS: To be developed.

REMARKS: None.

WS-575

ANNUAL CONSUMPTIVE WATER REQUIREMENTS (all uses)

Date: (8518)

State (0004) (0690)
District (0543)
P.U. (1075)

Name of Basin	Mean Annual Reservoir Draw Down (Ac/Ft)	Stream Diversions (AC/FT)	Consumptive Use AC/FT)
(5304)	(5429)	(5458)	(5459)

965-5117

(URA2)

Prog. Area: Watershed-Water
Prep. By: G. Lipscomb
Date: 12 Aug. 77

WI-24

DATA SOURCE DESCRIPTION
(INITIAL DATA BASE GENERATION)

TITLE OF SOURCE: WATSTORE Files (5) of U.S. Geological Survey (USGS)

FORM: Cards/Magnetic Tape

DESCRIPTION: Consists of water quantity and quality data for both surface and ground water maintained by Geological Survey.

CUSTODIAN: AGENCY:	PERSON:	PHONE:
U.S. Geological Survey	Linda Saindon	303-234-2404

LOCATION:
USGS National Center, Reston, Virginia

DATA FORMAT: Unknown at this time -- to be determined.

OVERALL DATA VALIDITY: Data has been collected and screened by Geological Survey from over 100,000 sites operated by USGS or their cooperating agencies. All data for stations of interest to BLM would be valid.

OVERALL DATA CURRENCY: Data is current as collected for all stations and valid for BLM needs (for those stations of interest to BLM).

ACCESS/SECURITY LIMITATIONS: Authorization to use WATSTORE must be obtained from Chief Hydrologist, U.S. Geological Survey, National Center, Mail Stop 409, Reston, Virginia, 22092. Access/security limitations are given in the WATSTORE Users Guide (Pages A-6 & A-7 of Chapter I).

ESTIMATED VOLUME: Unknown at the present time -- will require follow-up with USGS.

REMARKS: WATSTORE files include (1) Station Header File, (2) Ground Water Site Inventory File, (3) Water Quality File, (4) Peak Flow File, and (5) Daily Values File.

This recommended source is based on the assumption that BLM's data base will include water quantity/quality data rather than using other agency systems (WATSTORE, STORET, etc.) for storage, analyses and retrieval of BLM Water Data.

WS-577

WI-25

Prog. Area: Watershed-Water
Prep. By: G. Lipscomb
Date: 17 Aug. 77

DATA SOURCE DESCRIPTION
(INITIAL DATA BASE GENERATION)

TITLE OF SOURCE: STORET (Storage and Retrieval of Water Quality Data)

FORM: Disk/Tape

DESCRIPTION: A National data base of water quality information for streams, rivers, lakes, and other bodies of water.

CUSTODIAN: AGENCY: Environmental Protection Agency (EPA) PERSON: Thomas Entzminger PHONE: 303-837-2226

LOCATION: EPA Computer Service (Physical Location Unknown)

DATA FORMAT: Unknown at this time -- to be determined.

OVERALL DATA VALIDITY: Data has been collected by many agencies and entities and stored in EPA's National Data Base. Data for geographic areas of interest to BLM would be valid for BLM's Data Base. Water quality data for USGS stations is stored in this data base as well as in GS's WATSTORE System.

OVERALL DATA CURRENCY: Data is as current as the policy on submission by the contributing entities permits. For a geographic area of interest to BLM, the entire data base should be of value to the extent of confidence in the quality of the data.

ACCESS/SECURITY LIMITATIONS: Not yet determined -- will require future contacts with EPA.

ESTIMATED VOLUME: Unknown at the present time -- will require followup with EPA.

REMARKS: Only the Water Quality File of STORET is recommended as an initial data base resource.

This recommended source is based on the assumption that BLM's data base will include water quality data rather than using STORET for storage, analyses, and retrieval of BLM Water Quality Data.

Prog. Area: Watershed-Water
Prep. By: G. Lipscomb
Date: 25 Aug. 77

WI-26

DATA SOURCE DESCRIPTION
(DATA BASE MAINTENANCE)

TITLE/DESIGNATION: Narrative for Water Resources

FORM: Narrative

DESCRIPTION: A Step 2 URA Narrative describing the Water Resources of a planning area.

PREPARATION RESPONSIBILITY: Hydrologist or Watershed Specialist at RAH or DO.

FORMAT:

See attached sample input

DATA ENTRY PROCEDURE:

To be determined

FREQUENCY OF UPDATE:

Each 10 years as URA/MFP updates are completed.

VOLUME OF UPDATE:

60 narratives per year for the Bureau

ARCHIVING REQUIREMENTS: When updated, discard old narrative and record new.

ACCESS LIMITATIONS: To be determined

SPECIAL EDIT/AUDIT/VALIDATION REQUIREMENTS: To be developed

REMARKS:

This input is currently required in Step 2 of URA.

NARRATIVE FOR WATER RESOURCES

State: {0004} {0690}　　Date: {8518}
District: {0543}
Planning Unit: {1075}

The planning unit is located in hydrolgic region . . . . . .
. . . .
(5469)

Trends in water use include . . . .
. . . .
(5469)

Ground-water aquifers include . . . .
. . . .
(5469)

WS-580

WI-27

Prog. Area: Watershed-Water
Prep. By: G. Lipscomb
Date: 25 Aug. 77

DATA SOURCE DESCRIPTION
(DATA BASE MAINTENANCE)

TITLE/DESIGNATION: Narrative for Water Quality and Yield

FORM: Narrative

DESCRIPTION: A Step 3 URA Narrative for Watershed describing present water quality problems and annual water yields for a planning area.

PREPARATION RESPONSIBILITY: Hydrologist, Water Quality Specialist or Watershed Specialist at RAH or DO.

FORMAT:

See Attached sample input.

DATA ENTRY PROCEDURE: To be determined

FREQUENCY OF UPDATE: Each 10 years as URA/MFP updates are completed.

VOLUME OF UPDATE: 60 narratives per year for the Bureau.

ARCHIVING REQUIREMENTS: When updated, discard old narrative and record new.

ACCESS LIMITATIONS: To be determined

SPECIAL EDIT/AUDIT/VALIDATION REQUIREMENTS: To be developed.

REMARKS: This input is currently required in Step 3, Watershed, of URA.

NARRATIVE FOR WATER QUALITY AND YIELD

State: {0004} {0690}
District: {0543}
Planning Unit: {1075}

Date: {8518}

Water quality problem areas include . . . .
. . . .
(5470)

Source areas for water quality problems include . . . . . .
. . . .
(5470)

Uses affected by quality problems are . . . .
. . . .
(5470)

Significant water yield areas . . . .
. . . .
(5470)

U'S-5.82

Prog. Area: Watershed-Water
Prep. By: G. Lipscomb
Date: 25 Aug. 77

WI-28

DATA SOURCE DESCRIPTION
(DATA BASE MAINTENANCE)

TITLE/DESIGNATION: Narrative for Flood and Sediment Damage

FORM: Narrative

DESCRIPTION: A Step 3 URA narrative for Watershed describing flood and sediment damage problems in a planning area.

PREPARATION RESPONSIBILITY: Hydrologist or Watershed Specialist at RAH or DO.

FORMAT:

See attached sample input

DATA ENTRY PROCEDURE:

To be determined

FREQUENCY OF UPDATE:

Each 10 years as URA/MFP updates are completed.

VOLUME OF UPDATE:

60 narratives per year for the Bureau.

ARCHIVING REQUIREMENTS:

When updated, discard old data and record new.

ACCESS LIMITATIONS: To be determined

SPECIAL EDIT/AUDIT/VALIDATION REQUIREMENTS:

To be developed.

REMARKS:

This input is currently required in Step 3, Watershed, of URA.

115-583

NARRATIVE FOR FLOOD AND SEDIMENT DAMAGE

State: {0004} {0690}
District: {0543}
Planning Unit: {1075}

Date: {8518}

Flood problems include . . . .
. . . .

(5475)

Specific sediment damages are occurring in . . . . .
. . . .

(5475)

115-5f7

Prog. Area: Watershed-Water
Prep. By: G. Lipscomb
Date: 25 Aug. 77

WI-29

DATA SOURCE DESCRIPTION
(DATA BASE MAINTENANCE)

TITLE/DESIGNATION: Narrative for Water Use

FORM: Narrative

DESCRIPTION: A Step 3 URA narrative for Watershed describing water use requirements within a planning area.

PREPARATION RESPONSIBILITY: Hydrologist or Watershed Specialist at RAH or DO

FORMAT: See attached sample input

DATA ENTRY PROCEDURE: To be determined

FREQUENCY OF UPDATE: Each 10 years as URA/MFP updates are completed.

VOLUME OF UPDATE: 60 narratives per year for the Bureau

ARCHIVING REQUIREMENTS: When updated, discard old narratives and record new.

ACCESS LIMITATIONS: To be determined

SPECIAL EDIT/AUDIT/VALIDATION REQUIREMENTS: To be developed.

REMARKS:

This input is currently required in Step 3, Watershed, of URA.

115-585

NARRATIVE FOR WATER USE

State: {0004} {0690}　　Date: {8518}
District: {0543}
Planning Unit: {1075}

Water uses for Watershed include . . . .
. . . .
(5476)

Water rights are a problem in . . . .
. . . .
(5476)

Special problems are associated with . . . .
. . . .
(5476)

115-586

MEMORANDA

MEMORANDA

Bureau of Land Management
Library
Bldg. 50, Denver Federal Center
Denver, CO 80225